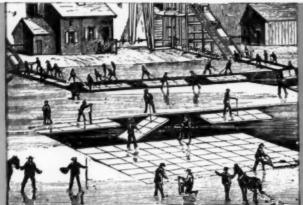
# Commercial Refrigeration E-Air Conditioning | March 1958

EASY-TO-USE PRODUCT CLASSIFICATIONS 1 Water cooled packaged air conditioners 2 Water cooled condensing units Air cooled packaged air conditioners 4 Air cooled condensing units 5 Furnace-cooling combinations 6 Heat pumps 7 Packaged water chillers 8 Room air conditioners

AN INDUSTRIAL PUBLISHING CORPORATION MAGAZIN

Circulation now over 30,000



# The year was 1918

Northern cities still depended heavily on natural ice... cut from pends and waterways nearby and stored in insulated ice houses or imported from Maine and other ice-producing states. More than 2,500,000 ions were harvested on the Hudson River alone in the winter of '17 and '18. But, even then, a precedous youngster known as mechanical refrigeration was fore-telling the decline of the Industry. In a few short years, the Hudson River ice houses would be razed...or sold to truck gardoners who found them admirably suited to the growing of meshrooms.

1918 was the year of Capeland's founding.

Reproduced from "Journal of the Franklin Institute"

# 1958

# Years-ahead Copeland engineering retains industry leadership

Copeland has led the field in developing direct-drive hermetics into rugged, dependable cooling components . . . the Copelametics. Engineers have "designed out" the primary causes of compressor breakdowns . . . belts, seals and manual oiling systems. They have made their dream-compressors practical, performance leaders by "designing in" accessibility. On those rare occasions when servicing is needed, it can be done on the spot. Copelametics never need be returned to the factory.

These and other outstanding features . . . combined with Copeland quality-conscious production and nationwide field service organization...make Copelametics the first choice of performance-wise manufacturers, engineers and contractors. The millions of units now serving in quality products and installations throughout the world are testimony to the fact.

When you need dependable condensing units or motor-compressors, investigate Copelametic. The line is complete...it includes a model for your application: Air-cooled ¼ H.P. through 10 H.P. and water-cooled ⅓ H.P. through 10 H.P. Write for specifications and performance data.



1. Field proven supercharges for any application—all temperature ranges—all operating conditions. 2. Power element case and stainless steel diaphragm atomic hydrogen welded into one piece. Field tested for over 25 years.

4. External equalizer. (Internal available).

3. External superheat adjustment. (Internal available).

6. Tight seating stainless steel stem and seat. 5. Simple cage assembly contains only one packed stem. Replaceable for quick servicing. Interchangeable for wide capacity range.

7. Outlet connections to match distributor requirements.

12
points of quality in

THERMO VALVES

"T" SERIES

8. Easy to install, light weight flanges— in widest variety of body styles and connections.

**ENGINEERED THROUGHOUT FOR TROUBLE-FREE OPERATION!** 

- 9 Rugged come-apart constructions—corrosion-resistant materials.
- 10 Can be mounted in any position.
- 11 Simple, compact design only three major parts—interchangeable to provide wide capacity and operation ranges.
- 12 Easy to inspect, clean and service without breaking line connections—no special wrenches or gauges required.

BUY QUALITY-BUY ALCO

SEE YOUR ALCO WHOLESALER

WRITE FOR BULLETIN 171-56 ALCO VALVE CO.

843 KINGSLAND AVE. . ST. LOUIS S, MO.

The one complete line of refrigerent controls: Thermostatic Expansion Valves, Refrigerant Distributors, Solenoid Valves, Suction Line Regulators, Flooded Evaporator Controls and Reversing Valves.

# Manning-Bowman. FLEXIBILITY means SALE-ABILITY



1958 Self-Contained Central Air Con-ditioners—2, 3 and 4 ton models plus 3 ton heat pumps.



1958 Remote Air Conditioner Cond ser Sections — 3, 4 and 5 ton mod plus 3 ton heat pumps.



1958 Blower-Coll Units and Coll Sections—3, 4 and 5 ton models (Blower-coil with decorative-front accessory).

## **New Adaptable Air Conditioning Line** Makes PROFIT for DEALERS

In central systems alone there's a unit for virtually every application. Units are easy to install, easy to service. Product quality plus Maximum Performance Testing (M.P.T.) result in customer satisfaction. These are the things which sell, which keep customers sold, on our equipment - and on your organization!

### MORE FEATURES TO HELP YOU SELL

EXCLUSIVE NEW LECTROFILTER® GENERATOR - Standard equipment on all models. A unique development used to electrostatically charge the filter which collects pollen and dust.

EXCLUSIVE PERMALIFE® - Outstanding enamel finish UL tested. Proved to withstand 2600-hour hot, salt spray test.

**EXCLUSIVE MAXIMUM PERFORMANCE TEST (M.P.T.)** protects dealer's profits on air conditioners. EVERY air conditioner is operated under tropical conditions before shipment. This is your assurance of satisfying performance - free of troublesome service calls.

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MANNING-BOWMAN .

Lonergan Coolerator Division

Department MCR83-CR, Albion, Michigan

Tell me more about the Manning-Bowman line and prices.

Company.

Street.

City\_

# Commercial Refrigeration E-Air Conditioning | MARCH 1958 · Vol. 15 · No. 3

61/Let's Keep Sales Cost in the Price!

Cutting corners on prices means cutting corners somewhere in the production or distribution of the product. But air-conditioning sorely needs salesmanship, so let's not cut corners on it.

**64**/YOU'RE THE BOSS . . . continuing a 12-article series on business management by George C. Webster

PART 3 — Planning Ahead for Profits — points up the benefits of budgeting every phase of your business operations, and gives you step-by-step instructions for setting up a sales forecast.

69/Use Building Structure To Cut Air-Conditioning Costs

71/No Thermal Short Circuits on this Insulation Job

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1958 Air Conditioning Specifications

listed in 8 easy-to-use product classifications

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**83**/Water Cooled Condensing Units

88/Air Cooled Packaged Air Conditioners

93/Air Cooled Condensing Units

103/Furnace-Cooling Combinations

109/Heat Pumps

112/Packaged Water Chillers

116/Room Air Conditioners

BPA

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There's no need to gamble when you can be sure. The Bendix-Friez\* Portable Temperature and Humidity Recorder has taken the gamble out of air conditioning and refrigeration installations. It gives you a permanent record of all temperature and humidity fluctuations on a single chart. You don't have to estimate the problem-you can know exactly what conditions you are dealing with before any installation is begun. In addition, it proves the operating efficiency of your equipment after it is installed.

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your equipment is needed, as well as the precise type of equipment required

Completely automatic, the Recorder does not need wet bulbs, wicks or psychrometric tables and is built for 10-hour or 30-hour continuous operation. Write for our brochure "Bendix Tools for Heating, Refrigeration and Air Conditioning". Address 1401 Taylor Avenue, Baltimore 4, Maryland. PREG. U.S. PAT. OFF.

Friez Instrument Division



The Bendix-Friez Hygro-Thermo

graph (above), for more permanent installations, is a superior temper-ature and humidity monitor, built to U. S. Weather Bureau standards.

# **Commercial Refrigeration** & Air Conditioning

published monthly by

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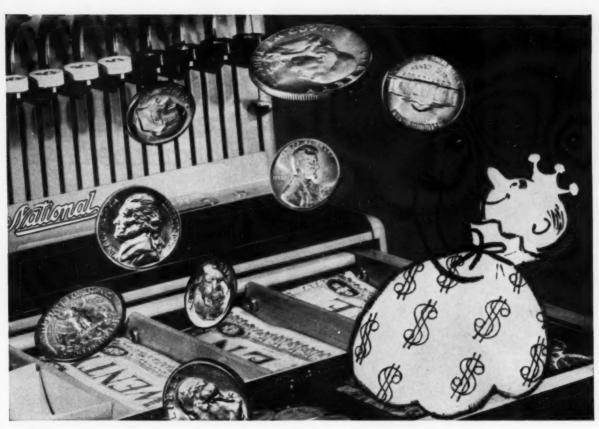
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# trouble-free

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Please send me full information on an Airtemp franchise.

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\_\_\_\_

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Jenni Genetron says "These are the Modern refrigerants for the Air Conditioned Age" enetron Tested! Approved! For America's Finest Air Conditioning Equipment! America moves into the air conditioned age. In houses and apartments ... in stores and factories ... in offices and public buildings, man-made weather is the order of the day, calling for air conditioning equipment of highest efficiency and economy. "Genetron" Super-Dry Refrigerants are tailor made for such systems. They meet or surpass the industry's most exacting specifications for fluorinated hydrocarbon refrigerants. Leading manufacturers have tested them exhaustively . . . have approved and certified "Genetron" Super-Dry Refrigerants for original or replacement charge in America's finest equip-

### Moisture Out! Trouble Out!

The quality specifications on the opposite page tell why "Genetron" Refrigerants are so dependable. Note their exceptionally low moisture content, their very low percentages of non-condensable gases and high boiling impurities. Here are refrigerants that can be counted upon for trouble-free performance every time!

#### Stable! Safe! Nonflammable! Noncorrosive!

Always specify "Genetron" Super-Dry Refrigerants for your equipment. Learn for yourself why "Genetrons" are the "Modern refrigerants for the air conditioned age."

- Super-Dryl Guaranteed exceptionally
   low moisture content
- Noncorrosive to standard equipment materials
- e Nontoxic, nonflammable, stable, safe
- Critical and freezing points well outside range of operating uses
- Solvent action on oil helps prevent solidification or congealing of lubricant
- Miscible with oil; aid in lubrication of equipment
- Identical and freely interchangeable with comparable fluorinated hydrecarbon refrigerants made by any other manufacturer meeting the same high standards

Extremely low moisture content! Exceptionally high purity!



For Homes and Offices of the Air Conditioned Age!



For Stores and Public Buildings of the Air Conditioned Age!



For Factories of the Air Conditioned Age!

### genetron 11 ORANGE LABEL

#### TRICHLOROMONOFLUOROMETHANE

Quality Specifications	
Moisture wt. %, max	
Chiorides	non
High boiling impurities-vol. %, max	0.0
Boiling pt. at 760 mm. Hg °F	74.
Boiling range °F (to 85% pt.), max	0.

## genetron 12 WHITE LABEL

### DICHLORODIFLUOROMETHANE

Quality	2bacigo	enions				
Moisture	wt. %,	max			0	.0010
Chlorides						
High boi	ing impi	urities-v	01. %.	max		0.01
Non-cond						-
perchi	oroethyli	ene)vol.	% in 1	vapor phi	sse, ma	t. 1.5
Boiling p	t. at 76	0 mm. H	R *F			-21.6
Boiling r	ange °F	(to 85%	pt.), m	08X		. 0.5

## genetron 22 GREEN LABEL

#### MONOCHLORODIFLUOROMETHANE

#### Quality Specifications

	e wt.												
Chlorid													
High bo	gniling	impu	rities	-W	of.	%.	ma	×	 				0.01
Non-cor	ndens									e,	m	ax	. 1.5
	nt w	764	mm (	. Ha	1 9	F							-41.4
Boiling													

## genetron 113 PURPLE LABEL

#### TRICHLOROTRIFLUOROETHANE

Moisture :	wt.	%.	ma	ĸ									0		0	.00	2
Chlorides														 		no	n
<b>Boiling</b> pt	. at	760	m	m.	Ha		F.									117	1.1
<b>Boiling</b> ra	nge		(to	85	1%	9	t.)	. 1	mi	NX.						. 1	1.4

#### USES

Trichloromonofluoromethane ("Gene-tron" 11) finds widespread use as a refrigerant in industrial and commercial air conditioning systems using single or multi-stage centrifugal compressors. It can also be used for either direct or indirect expansion-type systems.

### USES

Dichlorodifluoromethane ("Genetron" 12) and Monochlorodifluoromethane ("Genetron" 22) are the most widely used organic fluorine refrigerants. They are used in virtually all types of air conditioning equipment, large and small, household and industrial, direct and indirect expansion systems.

Some of the typical units in which "Genetron" 12 and 22 are used: window air conditioners, home or officensole units, large store units, large custom-built units for commercial comfort, large home units for addition to present hot air heating systems, and mobile units for transportation equip-

#### USES

Trichlorotrifluoroethane ("Genetron" 113) is used in 50-ton and larger centrifugal compressors, primarily for large comfort cooling systems, brine cooling systems, and other commercial and industrial air conditioning systems.

For further information, see your wholesaler or call or write

genetron department

### GENERAL CHEMICAL DIVISION

ALLIED CHEMICAL & DYE CORPORATION 40 Rector Street, New York & M. Y.





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Thanks, Mr. Sicilia!

EDITOR:

In the Letters to the Editor column of your December issue, you published a letter by Ed. Hornak of Alpena, Mich., asking where parts for "Frost-Air" freezers could be obtained. You can tell Mr. Hornak that these parts are available from Amana Refrigeration, Inc., Amana, Iowa.

Louis Sicilia 3424 Refrigeration Service New Kensington, Pa.

### **DuPont Answers Freon Ouery**

EDITOR

We are interested in knowing what would be the reaction of "Freon12" in contact with calcium chloride brine. If you can't answer this question, could you refer us to some source from which we might be able to obtain this information?

A. J. BEYER Fred E. Boehme, Inc. Milwaukee, Wis.

Mr. Beyer's query was forwarded to H. M. Parmelee of DuPont's "Freon" Products Laboratory, who offers the following observations:

While we have not made an exhaustive study of this problem, no effects were observed when "Freon-12" gas was bubbled through calcium chloride brine at 0.30 F.

Certainly no significant chemical effects would be expected. The only chemical effect possible would be hydrolysis,

The hydrolysis rate of "Freon-12" in water at atmospheric pressure and 86 F was found to be less than 0.005 grams of refrigerant hydrolyzed per liter of aqueous solution of the gas per year.

In the presence of a weak alkali (1% sodium carbonate), the rate was 0.04 grams per liter per year and in the presence of iron and water it was 0.8 grams per When the system's full . . . the indicator tells you so!

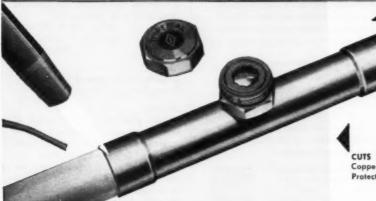
shows need for refrigerant at a glance!

Man! This single-port liquid indicator is without question the greatest work and time saver on the market today! One quick glance and you know immediately if system needs refrigerant. Simple as that. No squinting or guessing!

Installs in a flash . . . it's positively leakproof . . . gives years of trouble-free service! A masterpiece of simplicity,

compactness and top quality.
Install Imperial "Magic-Eye" Liquid
Indicators on your next jobs — find out first hand how they make money . . . build extra customer satisfaction for you.





LEAKPROOF - TROUBLE-FREE - Heavy crystal glass in port hole is thermo-shock and pressure resistant. It's positively sealed with confined sealing medium.

Husky forged brass body, on flare type, cannot be distorted in assembly. Generous wrench flats. Extra-strength walls. Indicator has been pressure tested to 4,000 psi. Swivel and male flare connections precisely machined for positive take up and leakproof re-connection.

CUTS SOLDERING TIME - No Disassembly -Copper tube extensions dissipate heat. Protective cover for glass guards against dirt and damage.

IMPERIAL "Magic Eye" Liquid Indicators available in these sizes:

No. 271-C, FEM. FLARE SWIVEL, Male flare connection: 14, 46, 1/2" O.D.

No. 270-C, MALE FLARE CONNECTIONS: 14, 1/4, 1/2" O.D.

No. 275-CS, SOLDER CONNECTIONS, 1/4, 86, 1/2, 46, 34, 36, 11/6, 13/6, 13/6, 21/6" O.D.

Order from your jobber. Write for Catalog 81.

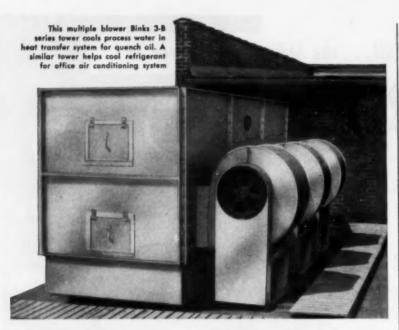
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6300 W. Howard St., Dept. CR-38, Chicago 31, III.

Emblem of Quality



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# cut cooling water usage 95% ...save \$6,000 annually

"We were using 2,840 cubic feet of cooling water every day for our manufacturing processes and air conditioning," reports Mr. Max Boté, plant engineer at McGill Manufacturing Company, Inc., Valparaiso, Indiana. "Since installing two Binks cooling towers we use less than 200 cubic feet."

Control quench oil temperature

Bearing parts manufactured by McGill are heat treated. At 1500° F., the parts are cooled in quench oil which is held at 110° F. by a water-cooled heat transfer system. Water for the system is cycled through a Binks 3-B series cooling tower where its temperature is lowered 8° F. under all climatic conditions. A similar tower helps cool Freon 22 in the office air conditioning system.

#### Whisper-quiet operation

Tip speed of the squirrel cage blowers is one-third that of equal capacity propeller fan units. Their quietness permits installation next to windows or in building wells.

Minimum maintenance needed

All panels are heavily galvanized. Outside, they receive two coats of aluminum paint; inside, a durable zinc chromate coating. Blowers and motors are placed outside the moisture laden air stream. Decking is of heart redwood.

Send for complete data Ask your Binks Branch Office, or write direct for a copy of Bulletin 477-A and 333. Binks engineers will be glad to answer your questions and help solve your particular cooling problems. There is no obligation.











A COMPLETE LINE OF NATURAL DRAFT AND MECHANICAL DRAFT COOLING TOWERS AND INDUSTRIAL SPRAY NOZZLES

# Binks Manufacturing Company

3134-38 Carrell Ave., Chicago 12, III.



liter per year as indicated by analysis for free chloride ion.

All of these rates are very low and should not be significant in a cold system. Calcium chloride solution would not be expected to cause significant hydrolysis even under the saturation pressure of "Freon-12". Hydrolysis could be detected easily by following the pH of the solution.

Neither would we expect any physical effects. While "Freon-12" forms a hydrate with water melting at about 50 F, preliminary tests with calcium chloride brine and "Freon-12" produced no solid at -22 F. Of course, such effects as a vapor lock in a brine circulating pump might take place.

### Always Glad to Oblige!

EDITOR:

If your file of past issues includes a map of the United States showing the number of 85 or 90 degree days for various areas, I should appreciate your sending us a copy or tear sheet at your earliest convenience.

EDITOR:

Sincere thanks to you for sending so promptly the information requested in my last letter. Such service speaks volumes for the editorial vitality of your publication.

MELVILLE W. MERCER Taylor-Norsworthy, Inc. Dallas, Tex.

#### **Business Management Series** Draws Reader's Praise

Your plan to include a series of better management articles in Com-MERCIAL REFRIGERATION & AIR CON-DITIONING is an excellent idea.

Congratulations on the progressive steps taken in recent months to increase the usability of your magazine for your readers.

WILLIAM I. SCHERB Lando Advertising Agency Pittsburgh, Pa.

#### Likes "I Tried to Buy" Story

EDITOR:

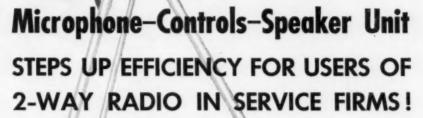
I have been meaning to compliment you on your fine article in the November issue of COMMERCIAL RE-FRIGERATION & AIR CONDITIONING entitled "I Tried to Buy Year-Round Air Conditioning for a new Home".

We have noticed a definite change

Continued on page 149

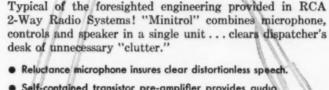
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# "MINITROL"





**Desk Stand** 

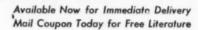


- Self-contained transistor pre-amplifier provides audio amplification necessary to modulate the transmitter.
- Transmitter is activated by foot switch, freeing dispatcher's hands for other work.
- Message is directed toward dispatcher, reducing distraction to other personnel.
- Designed to provide maximum mounting flexibility, offering more combinations of equipment than ever before possible.
- Used to control local or remote control equipment.
- Choice of three mountings including Dazor type, desk stand, or to fit standard microphone holders. Colors: silver sage and pearl sand.

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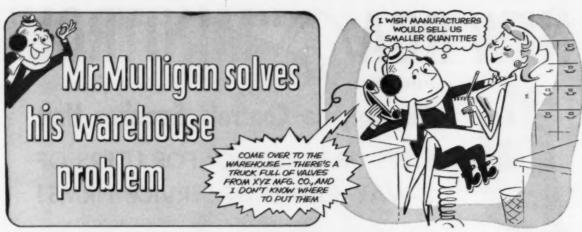
Radio Corporation of America munications Products Dept. D-261 Building 15-1, Camden, N.J.

- Please send me specifications and prices on RCA "MINITROL" Microphone-Control Unit.
- Please send me 14-page brochure, "How Service Firms Increase Efficiency with RCA 2-Way Radio."

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ZONE

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# **QUPOND**

FREON

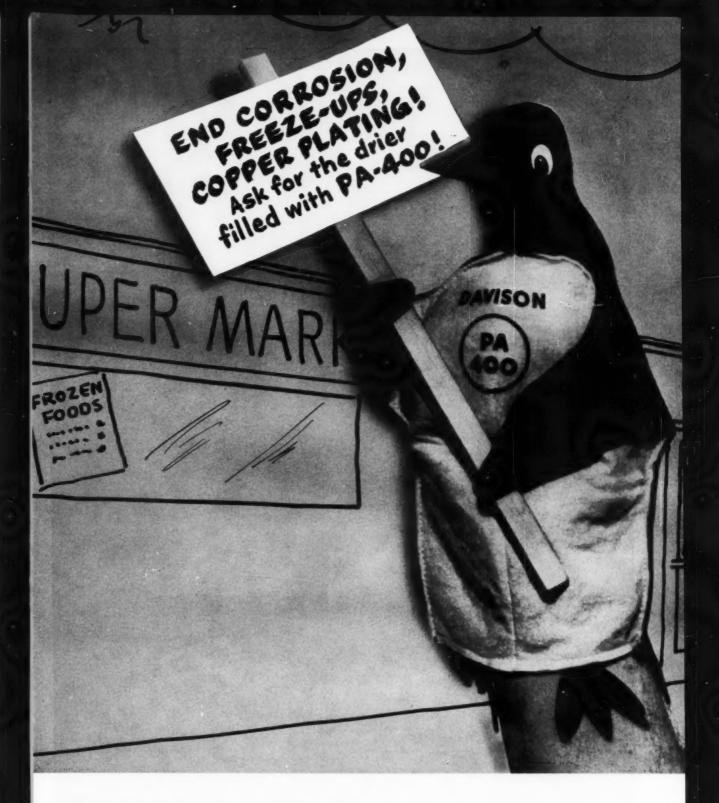
\*"Freon" is Du Pont's registered trademark for its fluorinated hydrocarbon refrigerants.

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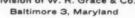
you see this sign



ADSORBS ACIDS. Refrigerants react with water, oils and other contaminants to form acids. These acids attack metals in refrigeration systems . . . cause corrosion, freeze-ups, copper plating. But PA 400° Silica Gel removes moisture before it can form acids. What's more, it removes any acids already in the system! So ask for the drier filled with PA 400. Both you and your customers will be happy you did. See your distributor tomorrow.

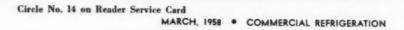
# DAVISON

Division of W. R. Grace & Co.



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OF LOSING SALES BECAUSE YOUR LINE DOESN'T HAVE THE RIGHT UNITS AT THE RIGHT PRICE? THEN READ THE RIGHT HAND PAGE...





# BUILD A BETTER BUSINESS WITH TYPHOON

The most complete line of packaged air conditioners in the industry! Air cooled units from 2 tons to 20 tons, both packaged and as split systems. Water cooled units from 3 tons to 60 tons. Packaged water chillers, 2 tons to 50 tons. Air cooled condensing units to 20 tons, water cooled to 60 tons. For residential, commercial and industrial installations, Typhoon has the size, the model, the price for every job you bid for. And that's not all. Units like the ones shown above are part of Typhoon's line. Your competitors haven't got them because only Typhoon makes them! Typhoon's exclusive features give you sales versatility competitors can't match—like the H616SC, the only 60 ton unit with air discharge that can be placed at the front, back or on the top of the unit depending on how you want to install it! And Typhoon's direct factory service helps you solve any problem, close any sale, quickly, easily, profitably. For more business, for better business, write today for full information on a Typhoon franchise.

	Typhoon Air Conditioning Company 505 Carroll Street, Brooklyn 15, N. Y.	
TYPHOON	☐ Please send me full details about a Typhoon☐ Please have your representative call on me.	
DIVISION OF HUPP CORPORATION	NameAddress	6
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# ONLY KOLD-DRAFT OFFERS THE BIG THREE IN

# AUTOMATIC ICE CUBERS

FOR COMPLETE INFORMATION AND PRICES WRITE TOM MARTIN, SALES MANAGER.

KOLD-DRAFT OFFERS UNCOMPLICATED DESIGN REQUIRING MINIMUM SERVICE

UNIT FLEXIBILITY

KOLD-DRAFT DIVISION

UNIFLOW MFG. CO. ERIE, PENNSYLVANIA





# "DRI-COR"...

# a New Name - a Finer Filter-Drier

■ You can expect the best from Henry. Here's the new "Dri-Cor" Filter-Drier. It incorporates an activated ceramic fired desiccant filter core for micronic filtration in combination with granular desiccant for high efficiency drying with low pressure drop. Drying and filtering are properly proportioned.

Like other Henry Driers the "Dri-Cor" is

thoroughly reactivated and pressure sealed at the factory, through the exclusive patented Henry Abso-Dry process. This assures maximum drying efficiency at time of installation.

"Dri-Cor" Filter-Drier cartridges with the same design features are also available for Henry Cartridge Type Driers. Definitely a "must" for those who demand the best.

See Your Local Henry Jobber

#### HENRY VALVE CO.

MELROSE PARK, ILLINOIS (Chicago Suburb)
Cable: Hevalco, Melrose Park, Illinois

VALVES, DRIERS, STRAINERS, AND ACCESSORIES FOR REFRIGERATION, AIR CONDITIONING, AND INDUSTRIAL APPLICATIONS

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LABORATORIES, INC. UNDER
RE-EXAMINATION SERVICE FOR
M A X I M U M W O R K I N G
PRESSURE OF 500 PSI



# the ideal system-and the price is right



McQUAY REVAP Automatically controlled heat reservoir REVAP re-evaporates con-densed liquid for quick and positive coilde-icing. Solenoid valve, actuated by timer, diverts hot gas from compressor discharge through REVAP.

#### McQUAY UNIT COOLER

A new low temperature unit cooler with low pressure drop, built-in heat exchanger and drain pan de-icer. Available in eight sizes, 3000 to 32,000 Btu/hr.



The new McQuay ZEROFROST is the very finest automatic hot gas defrost system available. And the ZEROFROST system is priced right. It's fast, positive and dependable -frost free and care free. ZEROFROST is the ideal system because it provides a continuous supply of hot gas and eliminates slugging. It is very simple to wire and install.

The McQuay ZEROFROST system is designed specifically for low temperature applications below 35° F. Its high efficiency and dependability are due to the McQuay REVAP, a low wattage contact heated re-evaporator. The REVAP functions as a heat reservoir to re-evaporate the condensed liquid formed during defrosting. The liquid is trapped and re-evaporated in the REVAP, assuring complete protection of the compressor valves from liquid slugging. There is a McQuay representative in or near your city, or write McQuay, Inc., 1643 Broadway Street N.E., Minneapolis 13, Minnesota.











M. Quay ZEROFROST SYSTEM

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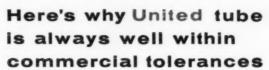
AIR CONDITIONIN HEATING REFRIGERATION

the meaning of custom-made quality



Steel case die with sintered carbide nib

Plug or mandril with sintered carbide tip



You want seamless tube exactly in the size you specify... every order, every piece. At United, these "specs" are assured with the finest carbide dies in the industry. Diamond bored to exact size in United's modern in-plant tool room, constant accuracy is guaranteed by the long life of the sintered carbide nib and plug. In addition each set is carefully checked and refinished after every job lot.

Standard size dies are always in stock and special sizes are readily available by quickly making a die to specifications. This is but one example of United custom-made quality. For further information or for fast shipment of your order write:

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for aluminum, brass, copper tube and wire...brazing alloys

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Here is the complete packaged cooling tower story . . . and the twentieth edition is just like the first—ALL MARLEY. Every year Marley know-how and Marley production ability write new, important chapters; they are so comprehensive that they cover the field from A to Z. That's why they are the industry's

# BEST SELLERS OF '58



11 Models with Nominal Capacities from 3 to 60 Tons

Hot Dip Galvanized After Fabrication—Prevents corrosion, assures longest service life

Diffusion Decks—Exclusive feature; essential to efficient initial water break-up

Close-Packed Filling Cube—More wetted surface, more performance per cubic foot

**Drift Eliminators**—Prolong service life of mechanical equipment; keep tower site dry

Air Inlet Louvers—Balance air flow, prevent splash-out

Marley Type L Fan—Most rugged fan used on towers of this type; non-overloading, prevents over-heating motor

Fan Venturi—Greatly reduces fan noise and entrance loss

Stainless Steel Fan Shaft—Mounted in Bronze Sleeve Bearings

Clamp-Down Design—Permits quick disassembly and reassembly of all models when necessary



Every job deserves Marley quality and every job can have it. Whatever the requirement—induced draft, forced draft, natural draft—the tower pin-pointed for the application is in the complete Marley line. Never a need to compromise on size, style or structural material—Marley makes them all available.

And of equal importance, when you select Marley you gain two partners earnestly interested in the success of every job: your Marley distributor and Marley. The distributor who sells Marley towers has been carefully selected for his willingness and ability to serve you both before and after your purchase. He, in turn, is backed by The Marley Company's assurance that every product will be satisfactory to every purchaser—a guarantee fulfilled for 35 years.

Today's market makes this teamwork important on every job and Marley makes it available to you with every tower you install.

# The Marley Company

222 W. Gregory Blvd., Kansas City, Mo.

# **Aquacoolers**®



Nine models with capacities nominally rated from 5 to 50 tons

For installation indoors or out

Consistent, full capacity performance

Whisper-quiet operation

Requires minimum plan area

Adjustable air delivery



# WOOD WOTAUQ

Five models w capacities nominated from 5 to 50

Designed for maxis

Forced draft d

Can be installed confined areas.

Blends harmonious with any surroundi

Shipped unassemb for easiest handli at job site

# **SPRATOWERS**



A complete range of capacities

Provides maximum water cooling economy

Non-clog bronze spray nozzles

Balanced spray system

Long-life redwood construction

Prefabricated for quick installation





branch manager of distributors for Admiral Corp., in Houston, will direct expanded Lonergan operations in the southwest.

Sporlan Valve Co. has expanded its Chicago office to include a sales



office in Minneapolis. Malcolm L. Moore, formerly in Sporlan's St. Louis sales department, has been moved to Minneapolis to take over the

new office. He has been with Sporlan since 1956.

American Automatic Ice Machine Co., has announced the appointment of Sam Maverick as representative in Texas, Louisiana, Arkansas, Mississippi, and western Tennessee. Maverick is a former regional manager for Chrysler Airtemp at Houston and sales manager for York Distributors at Fort Worth.

Russell A. Sherer has been elected vice president of White-



Rodgers Co. Sherer, previously sales manager, will continue to direct all sales activities in addition to his new executive duties. He joined the

company in 1943 after extensive experience in sales and sales management.

Four major sales personnel changes have been made by York Corp., subsidiary of Borg-Warner Corp. William T. Goldsmith has been named sales manager of residential air conditioning and heating. Goldsmith formerly was with the Ingersoll Div. David H. Crawford is the new sales manager of commercial air condition-

ing. Crawford has been associate commercial engineer, senior sales staff engineer, and sales administrator. Wilbur S. Miller has assumed the position of sales development manager. Miller previously was manager of the southwest district. John L. Roth has been named manager of associate sales. Roth joined York in 1950 after seven years with General Electric Co., where he had been manager of



heat pump sales in the distribution sales section of the air conditioning department. The firm also has announced three other new assignments. They are: Charles W. Egbert, manager of applications; Robert O. Bair, sales division



controller; and Marvin M. Crout, service manager of engineered machinery. Egbert formerly was sales manager of the firm's Atlantic district. Bair has been controller of the midwest division. Crout, for the past 15 years, has served as industrial manager of the southern district with headquarters in Atlanta.

Joe L. Savage has been named southwest regional manager for Lonergan Coolerator Div. of Mc-Graw-Edison Co. Savage, formerly

Roy B. McCrady has been appointed a manufacturer's repre-



sentative by Brass Div. of Kerotest Mfg. Co. McCrady has represented Ansul Chemical Co., and Alco Valve Co. His territory includes the

states of Missouri, Kansas, Iowa, and Nebraska.

Sherman Singer has been promoted to manager of air condition-



ing products of Recold Corp. Singer, who has been in charge of Recold's catalog engineering for three years, will continue his duties on cata-

logs and pricing, but will take a more active responsibility in management decisions on air conditioning products. Prior to joining Recold in 1954, he was associated with Dryer Hanson, Inc, as assistant sales manager.

Murray Kanes, formerly head of the electromechanical development department of the Research Laboratories Div. of Bendix Aviation Corp., has been appointed director of engineering of Friez Instrument Div. Kanes joined Bendix in 1951.

Appointments of Warren Singer as field sales manager and Dave Armbruster as Los Angeles district manager for RCA Whirlpool air conditioners of Whirlpool Corp. have been announced. Also announced are the promotions of John Keller and Thomas Cobbledick to district manager posts.

# SURE

FOR SAGGING SALES AND PROFITS!

Crystal Tips

lower distributor prices mean larger profits for YOU!

It's always easy and more satisfactory to sell people what they want. That's why Crystal Tips distributors are still setting ice maker sales records. They have the line people want, and they can offer Crystal Tips units at an attractive price with bigger distributor profits.

If you feel like you have only been "exchanging dollars" on your ice maker sales, if you are disappointed at the "footballing" of products and prices, there was never a better time than right now to investigate a Crystal Tips distributorship. Hundreds of distributors are proving, every day, they can make more sales and bigger profits, in less time, with Crystal Tips.

We want aggressive distributors, and we can show you how to make more money on every ice maker you sell. Write today for the complete facts.

First Name in Automatic Ice Makers

# **AMERICAN**

AUTOMATIC ICE MACHINE COMPANY

1873 Fourth Street N. W. Faribault, Minnesota

A Division of McQuay, Inc.



IT PAYS TO BE A CRYSTAL TIPS DISTRIBUTOR

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Singer formerly was sales manager for room units. He will now handle sales of both room and central air conditioners. Armbruster, who was sales manager for central units, will supervise sales of all air conditioning products in the Los Angeles district. Keller and Cobbledick, former field specialists, have been assigned Charlotte, N. C., and Dallas, Tex., districts respectively.

The appointment of Paul Disser as Refrigeration Div. sales



manager for Bohn Aluminum & Brass Corp., has been announ by R. C. Aylward, general sales manager. Disser joined Bohn in 1949 as a sales

representative. In 1954, he was advanced to Indianapolis as district sales manager.

Harold A. Halls has been promoted to manager of refrigeration



products for Recold Corp. With Recold since 1953, Halls will continue his present duties as national refrigeration service manager, but

also will be responsible in management decisions on refrigeration products and policies. He worked with Servel, Inc., and Refrigeration Service, Inc., prior to joining Recold in 1953.

Three new appointments in the sales division of McQuay, Inc., have been announced. The three are: a new manager of field sales, a new sales manager of heating and air conditioning units, and a new advertising manager. Willard B. Buck, named manager of field sales, joined McQuay as a sales engineer and has served in various sales capacities prior to his recent

appointment. Alvin R. Flynn, appointed sales manager of heating and air conditioning units, joined the firm as a sales engineer in 1950. He has served in various sales engineering posts leading to his present assignment. William P. Peterson is the new advertising manager.

Two promotions on the engineering staff of Johnson Service Co. have been announced. William P. Chapman will assume new duties in the company's research and development laboratory in his new capacity as administrative director. Chapman has been an executive member of the company's engineering staff since the fall of 1956. Otto Scharpf was appointed technical director of research and development. Scharpf has been on the company's engineering staff since 1930 and has been chief develoment engineer since 1950. The company also announced the transfer of sales engineer Joseph A. Cutler Jr. from its Milwaukee sales office to the New York office. Cutler has been with Johnson since 1954.

Paul W. Wyckoff has been named vice president in charge



of engineering for Airtemp Div. of Chrysler Corp. Wyckoff joined the corporation in 1939. He began his affiliation with Airtemp in 1946 as direc-

tor of its engineering laboratory. He was named assistant chief engineer in 1950 and in 1954 was named chief engineer.

The appointments of James T. McMurphy as sales manager of Philco Corp.'s air conditioning department and of John L. Goldschmeding Jr. as sales manager of the electric range department have been announced. McMurphy, prior to this appointment, was sales manager for the accessory division. Goldschmeding who joined

Philco in 1937 as a distributor salesman in Detroit, was sales manager of the Texas division before coming to Philco headquarters in 1954.

R. P. Greiner has been named sales representative for Remington room air conditioners for Eastern Missouri and southern Illinois. Greiner has been associated with the Carrier distributor in St. Louis.

Miller Mfg. Co. has announced the appointment of Richard R.



Holmstrom as sales manager for Bonney Forge and Tool Works, its subsidiary. Holmstrom has been with Bonney since 1951, having served as ad-

vertising and merchandising manager and assistant sales manager. His experience also is backed by a length of time in his own territory as a representative for Bonney.

John F. Wilson, general manager of marketing for Metals & Controls Corp., has been elected vice president in charge of sales. Wilson joined the firm in 1957.

Karl Koons has been appointed sales representative for Jackson



& Church Div.
of York-Shipley, Inc.
Koons was
formerly with
Rybolt Heaters Co., Ashland, Ohio. In
his new post,
he will be responsible for

sales in Ohio, western New York, western Pennsylvania, and West Virginia.

Freezing Equipment Sales, Inc., has announced the appointment of Anthony Schneider as project



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A service offered through subsidiaries of Commercial Credit Company, Baltimore... Capital and Surplus over \$200,000,000... offices in principal cities of the United States and Canada

Most of your prospects need their cash reserves and usual lines of credit for current operations. Break through this financial barrier. Make it easier for the prospect to sign on the dotted line by including financing arrangements. Commercial Credit's Refrigeration Plan is backed by many years' experience in your industry—experience in handling financing for thousands of commercial refrigeration and air conditioning installations.

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just leave the rest in the carton. It'll be clean, dry and free from damage-next time you need it.

You'll find that Wolverine refrigeration tube now has a new tube seal. It's a plastic plug that gives positive protection against moisture and dirt. It eliminates waste metal because you don't have to cut off tube ends and the seal can be used again and again. Since it is the same O.D. as the tube, you can thread the tube easily through partitions, etc.

Remember that Wolverine copper refrigeration tube is traditionally clean, dry and consistent in temper.

Suggestion: Quit knocking yourself out doing things the hard way. Ease up and do it better and easier the Wolverine way! Insist upon Roll-O-Tube next time you visit your wholesaler.

BUY FROM YOUR WHOLESALER



LANTS IN DETROIT, MICHIGAN, AND DECATUR, ALA. SALES OFFICES IN PRINCIPAL CITIES

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engineer. Before assuming his new position, Schneider spent three years as manager of the test and model section of York Div. of Borg-Warner Corp.

Samuel F. Shawhan has been elected president of Bryant Mfg.



Co., division of Carrier Corp. With Carrier since 1929, Shawhan has been assistant to the president since 1955. He succeeds Ronald N. Camp-

bell who resigned. Previously, he was assistant general manager of the Unitary Equipment Div.

Ralph Seaton has been appointed to the newly created post of technical sales supervisor for Wolverine Tube, fabricating division of Calumet & Hecla, Inc. Howard J. Luetzow has been named technical sales representative to serve the New York, New England areas. Luetzow replaces Seaton.

Taco Heaters, Inc., announces the transfer of Charles J. Sliney from the New York City territory to the Philadelphia area. Sliney has been operating out of the New York office for the last six years. His new headquarters will be Newtown Square, Penn.

Appointment of Walter Schmidt as vice president of engineering for O. A. Sutton Corp., Inc., has been announced. Schmidt formerly was associated with Whirlpool Corp. as Chief Engineer.

John McCardle has been named to the newly created post of director of Minneapolis-Honeywell's European operations. Mc-Cardle, who joined Honeywell in 1946, has served for the past four years as market sales manager for residential gas heating controls with headquarters in the firm's Minneapolis home office. In his new position he will supervise activities of eight Honeywell subsidiaries in continental Europe, including manufacturing facilities in Netherlands, France, Germany.

Two new sales engineers have been assigned to Trane Co., Cincinnati, and Syracuse, offices. Roger Hamilton has joined the Cincinnati sales office while William Ames has been assigned to the Syracuse office.

Commercial Credit Co. has announced the election of senior officers of Commercial Credit Corp., its principal finance subsidiary. Thomas A. Duncan was elected president; Samuel M. Chesney, James W. Newman and James P. Taylor were elected executive vice presidents. Michael V. Kane, Everett W. Sara, and Michael



Circle No. 23 on Reader Service Card

Sheehan were elected senior vice presidents. In addition, Walter Browning, Thomas W. Church, Elmer L. Chesney, Murray M. Hotchkiss, Donald S. Jones, and Herman Staton were reelected senior vice presidents.

Louis W. Hamper Jr. has been appointed to the newly created position of assistant to the vice president in charge of sales for Gibson Refrigerator Co., division of Hupp Corporation. Edgar W. Wright Jr. has been named district representative to cover the District of Columbia, Virginia, Maryland, North Carolina, and Eastern Tennessee by American-Standard, Air Condition Div. Before joining American-Standard; Wright was sales manager for New Jersey Warm Air Heating Co., South Amboy, N. J.

Roy Hardy has been appointed government services representative for Automatic Controls Div., Barber-Colman Co. Hardy will be located at Barber—the company's Washington D.C. office in Bethesda, Md.

The appointment of Joseph Minarik as branch manager for Vornado Distributing Co., Inc., Baltimore, has been announced by O. A. Sutton Corp. Minarik formerly was sales manager for Vornado Distributing Co., Inc., Philadelphia.

Robert J. Thompson has retired after more than 25 years with Du Pont Co., the last nine years of which he has been director of sales for its "Freon" Products Div.

J. Bernard Goodwin has been appointed chief engineer of Ideal Cooler Corp. Previously, Goodwin was with Hussman Refrigerator Co. for 28 years.

Don Smiley, operations vice president for Honeycomb Co. of America, has been named vice president in charge of manufacturing for Weber Showcase & Fixture Co., Inc. Smiley replaces Fred Weber, brother of Karl Weber, president, and son of the founder, who is retiring but who will continue to serve on the board of directors.

Harry J. Watson has been promoted to manager of The Trane Co. service department. Watson joined Trane early in 1956.

Milton W. Snyder has joined the engineering department of Water Service Laboratories, Inc. in the New York headquarters office, and Harvey Levitt has joined the chemical department of the company, working in the Philadelphia office.

Richard B. Loynd has been merchandise sales manager of Emerson Electric Mfg. Co. of St. Louis. Loynd formerly was assistant in charge of motor sales and



# HANSEN QUICK-CONNECTIVE TWO-WAY SHUT-OFF COUPLINGS

Both ends of line are positively sealed when you disconnect a Hansen Series HK Two-Way Shut-Off Coupling. To connect, just pull back sleeve and push Plug into Socket. To disconnect, merely pull back sleeve. No tools required. Identical valves in Socket and Plug permit free flow of gas or liquid when Coupling is connected—practically eliminate spilling of liquid or escape of gas when disconnected.

WRITE FOR THE HANSEN CATALOG

Here's an always ready reference when you want information on couplings in a hurry. Lists complete range of sizes of Hansen One-Way Shut-Off, and Straight-Through Couplings—including Special Service Couplings for Steam, Oxygen,

Acetylene, etc.

REPRESENTATIVES IN PRINCIPAL CITIES

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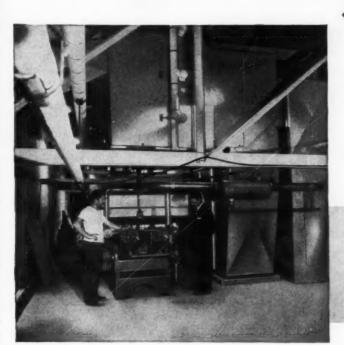
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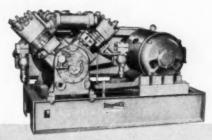
# FOR THOSE

# BIG AIR CONDITIONING JOBS...

Compressors from the BIG







### LONG LIFE, RELIABLE OPERATION FEATURES OF BRUNNER COMPRESSORS INCLUDE:

- . MOUNTING BASES CONSTRUCTED OF STRUCTURAL STEEL
- . LOW AND HIGH PRESSURE TYPE CONTROL.
- . FORCE FEED LUBRICATION.
- . PRESSURE RELIEF SAFETY VALVE.
- . MODULATION AND UNLOADED START (optional).

ypical of the BIG air conditioning jobs where architects, consulting engineers and contractors have learned to rely on BRUNNER compressors is the new Bostitch plant in East Greenwich, Rhode Island.

75 HP compressors, 100 HP compressors—whatever the size requirement—there was a Brunner unit to satisfy the design conditions.

Rugged workhorses of the various air conditioning systems at Bostitch, these units are tied-in to Dunham-Bush evaporative condensers and serve ceiling mounted air handling units for the Stapling, Engineering and Drafting departments. They also serve Dunham-Bush multizone units for conditioning executive offices and cafeteria areas.

Select Dunham-Bush and Brunner for single source service and responsibility.

# **BRUNNER DIVISION**

DUNHAM-BUSH, INC.

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# WHY GAMBLE

...with personal safety?

...with costly equipment?

...with customer confidence?

Don't take chances use fast, effective, safe





# CALGON SCALE REMOVER

Why take chances with your own safety, with costly equipment, and run the risk of losing good customers? Always use safe, effective Calgon Scale Remover when cleaning cooling tower systems. It comes in dry form—is readily dissolved—and has a pH color indicator that helps tell you how

much to use, and also when the system is clean.

New Calgon Economy Powdered Acid is a special formulation for low cost cleaning of cooling water systems. Above all, both of these Calgon products are safe to use—safe for you and for the equipment.

# Calgon Water Treatment Products save you time and money—use the best

MICROMET® PLATES—inhibit further scale formation—provide low-cost, easy-to-use, continuous protective treatment.

CALGON ALGAECIDE—positive action kills algae and slime growths.

BANOX® quickly forms a protective film on metal

surfaces. Should be used at spring start-up, after acid cleaning, and at shut-down.

CALGON GAS LEAK DETECTOR—for fast detection of refrigerant leaks.

CALGON LIQUID ICE MACHINE CLEANER—for fast, safe scale removal from ice making equipment.

# CALGON COMPANY



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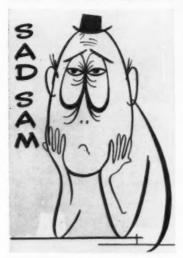
merchandise sales training. He has been with Emerson Electric since March, 1955.

Ray R. Richardson has been named service manager of Remington Corp. Richardson will headquarter in Auburn, N. Y. Prior to joining the firm he was associated with Fedders-Quigan Corp. since

Leo T. Kelly, long associated with the cold storage and insulation field, has been appointed sales representative of Dyfoam Corp., New Castle, Pa. Kelly will service the middle Atlantic states. His office will be in Pittsburgh, Pa.

David F. Forward has joined the advertising and sales promotion department of Carrier Corp. Forward will serve as assistant sales promotion manager for Carrier's Allied Products Div.

#### SELLS HEATING PRODUCTS



SAD SAM is a character you'll be seeing more of from now on. In direct mail. envelope stuffers and point-of-purchase displays, it's his job to sell Dunham-Bush's "one source-one responsibility" story for heating products to heating wholesalers and contractors.

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# REFRIGERATION -

# IT CAN NEVER BE BETTER THAN WHAT YOU PUT INTO IT TAKE OUT OF

Whether it's a Freezer, Refrigerator or Air Conditioning equipment - ultimate performance inevitably reverts back to the Vacuum Pump and what it did for the system. The question is not whether you can "get by" with anything less than KINNEY Pumps . . . it's what you lose by trying to!

BACK UP YOUR PRODUCT, SALES & SERVICE WITH



## HIGH VACUUM PUMPS

KINNEY HIGH VACUUM provides definite advantages that make the difference . . . a clean, dry Vacuum down to 10 microns or less . . . quickly, economically, positively. Your KINNEY Pump is a marvel of dependability, calling for a minimum of maintenance - and, day after day and every day you can rely upon it to give you unfaltering service.

Throughout the industry there are hundreds who can tell you, from experience, what you want to know about KINNEY dependability. For full particulars on the KINNEY equipment precisely fitting your needs - WRITE TODAY.



For full information KINNEY High Vacuum Pumps and Refrigeration Service Equipment.

### KINNEY MFG. DIVISION THE NEW YORK AIR BRAKE COMPANY

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KINNEY HIGH VACUUM CHARGING EQUIPMENT

Zone

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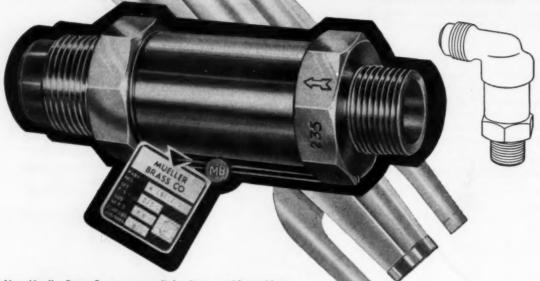
Here it is! one of the new Mueller Brass Co. refrigeration products that are out of this world!

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# PRESSURE RELIEF VALVE

safety engineered for high volume discharge



New Mueller Brass Co. pressure relief valves provide positive action and high volume discharge. Safety-Masters are built to meet the A.S.A.B. 9 safety code, comply with A.S.M.E. code, and are certified by the National Board. Safety-Masters are available in pressure settings from 150 lbs. to 450 lbs. Settings are factory-accurate and are stamped on the body of the valve. All valves are safety sealed to guarantee maintenance of setting accuracy. In operation, the unique instant action of the valve seat disc relieves pressure without chatter or vibration, and provides complete and positive reseating. Safety-Masters are available in 12 different end connections in straight-through or angle type, and are all made from premium quality brass for superior strength. Every Mueller Brass Co. pressure relief valve is packed in strong metal edge cartons for complete protection until installation. Be sure to specify

\*\*Safety-Master\*\* . . . another new Mueller Brass Co. product that is "out of this world" in design, engineering, and performance.

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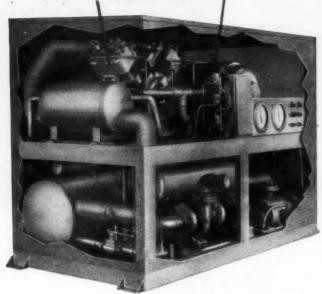
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### BAG COMPRESSOR AND ELECTRIC COMPRESSOR MOTOR

Designed and built by BaG! Better performing, longer lasting—built of the finest materials to most rigid specifications. BaG quality in every detail!



# **B&G PACKAGE** LIQUID COOLER **EQUIPPED B&G PRODUCTS** *THROUGHOUT!* THE ONLY UNIT OF ITS KIND WITH ALL MAJOR COMPONENTS DESIGNED, BUILT AND GUARANTEED BY ONE MANUFACTURER: Compressor - Compressor Motor - Chiller (ASME) - Molded Styrene Chiller Insulation · Condenser (ASME) · Heat Exchanger · Control Boxes · Control Panels · Chiller Pump · Chiller Pump Motor · Condenser Pump · Condenser Pump Motor · Water Relief Valve - Frame - Jacket EVERYTHING INCLUDED ...

#### WHY THE BAG PACKAGE LIQUID COOLER CAN BE INSTALLED AT SMALLER COST

- Equipped with quiet, vibrationfree B&G Compressor and Electric Compressor Motor—built for years of lasting service.
- 2. Equipped with B&G Electric Motors throughout.
- Factory tested under certified conditions and varying loads.
- Completely wired with interlocked controls. (A truly "plug in" appliance.)
- Completely enclosed in good looking, rugged steel frame.
- New, compact design B&G Evaporator—improved type heat transfer surface. Built to ASME Code, and so inspected and stamped.
- B&G Condenser has more generous fouling factor—takes less space. Built to ASME Code, inspected and stamped.
- 8. Equipped with long-life, quiet B&G Pumps—all substantially mounted and piped.
- Easily serviced—every part accessible and replaceable.

- Hammerloid finish jacket. Undercoated for sound-deadening.
- Thoroughly cleaned, dried and fully charged with Freon.
- Tubing brazed in inert gas atmosphere. Inside scale and dirt formation possibility eliminated.
- Bends instead of fittings, reduce possibility of Freon leakage to a minimum.
- 14. Easier handling because of low center of gravity.
- Non-recycling pump-down eliminates continuous pump-down system. Power saved through this feature.
- 34° without freeze-up. Special B&G Chiller and anti-freeze Control System permits applications down to this low point.

NO EXTRAS TO BUY!

- Evaporator heater, as well as crank-case heater, eliminates slugging of the compressor.
- Increment starters eliminate the necessity of resistor or auto-transformer starters.
- Capacity control system assures greatest efficiency by balancing horsepower to load.
- Sight glasses and test cocks permit easy and accurate checking of Freon charge.

Send for complete file of specifications and application data.



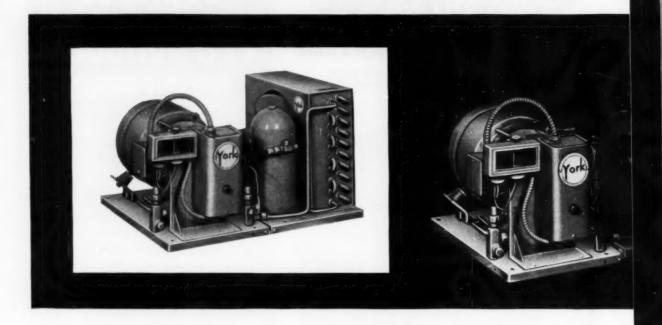
# BELL & GOSSETT

C O M P A N Y Dept. FE-45, Morton Grove, Illinois

Canadian Licensee: S. A. Armstrong, Ltd., 1400 O'Connor Drive, Toronto 16, Ontario

Circle No. 25 on Reader Service Card

# Now You Can Quickly Separate With YORK FLEX-0-



NEW IDEA in Hermetic Condensing Units Gives New Flexibility in Installation, Service and Use!

# Last Word in FLEXIBILITY!

Compressor and condenser sections for varying models may be interchanged. That means your York Wholesaler will have the unit you need instantly available. Condenser and compressor sections may be purchased separately.

#### TRI-COOLING-ANOTHER YORK EXCLUSIVE

All new, air-cooled units, with refrigerant cooled shell and sub-cooled condenser for applications as low as  $-50^{\circ}$ . No other cooling devices needed. Available in up to  $7\frac{1}{2}$  HP sizes.

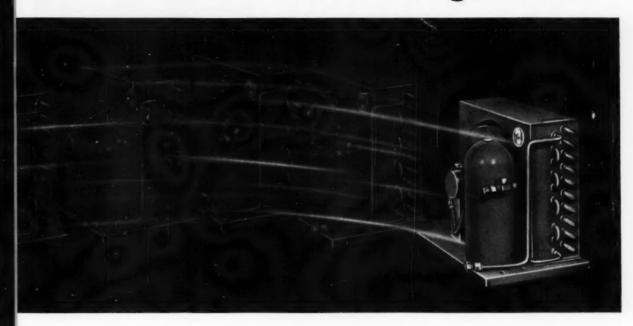
# First Time Ever REMOTE!

With York Flex-O-Metic Condensing Units, you can install the condenser section remotely from the compressor section. Sections separate easily ...in minutes...without loss of refrigerant, without the need to re-braze!

WHOLESALERS! Distribution is now available for some areas. For full details, wire, write or phone Sales Manager, Ice and Refrigeration Equipment, York Corporation, Subsidiary of Borg-Warner Corp., York, Pa.

Circle No. 30 on Reader Service Card

# Condenser From Compressor METIC Condensing Units!



There is a complete line of York Flex-O-Metic Condensing Units. Available in Air-cooled, Water-cooled and Air-Water-cooled models with sizes ranging from 1/3 thru 71/2 H.P.







#### Easier Than Ever INSTALLATION!

The compressor section is completely factory wired! And multiple compressor sections can be installed on racks with a single dry surface condenser to meet special needs. Receivers can be changed to a larger size for multiple fixture use or can be removed for capillary use.

#### Plus these extras:

- Three service valves...all with gauge ports... let you take high pressure readings at both compressor and receiver...low pressure reading at compressor.
- Rotalock Valve rotates 360° for easy piping from any direction!

Your FUTURE and FORTUNE Now Lies With York!

YORK



York Corporation, York, Pa., Subsidiary of Borg-Warner Corporation

Circle No. 30 on Reader Service Card

& AIR CONDITIONING . MARCH, 1958

35

## Dorsey uses <u>Rubatex</u> the best insulation money can buy

RUBATEX cargo-protecting flooring insulation will prove that under the most extreme conditions your refrigerated trailer will hold constant desired temperature—will hold cost and weight down—will increase inside space and payload capacity. Proof enough that RUBATEX INSULATION HARDBOARD is the best flooring insulation money can buy?



Rubatex Insulation Hardboard is easy to install—less labor cost in elimination of furring strips because Rubatex has enough structural strength to support extruded aluminum floor.





"RUBATEX IS STANDARD FLOOR INSULATION on our new REEFERATOR . . . gives us MAXIMUM INSULATION in bottom plus MORE CUBIC CARGO SPACE . . . its load-supporting, zero moisture pick-up properties ELIMINATE CONSIDERABLE WEIGHT IN FLOOR AND SUB, FLOOR CONSTRUCTION."

Dorsey Trailers, Inc.

## You get peak performance with Rubatex—here's why:

- Lowest heat conductivity of any known structural material (K factor 0.21)
- Compressive strength (60 p. s. i.) strong enough to support floor alone
- Extremely light in weight (4½ p. c. f.)

RUBATEX DIVISION, Dept. CR-2
GREAT AMERICAN INDUSTRIES, INC.
Bedford, Virginia



For full details and sample of Rubatex Insulation Hardboard—print your name in space below, attach to your company letterhead and mail to us.

Name

RUBATEX
INSULATION HARDBOARD

Send for Free Samples and Data Sheets

Circle No. 31 on Reader Service Card

Every SPORLAN Solenoid Valve is POWER PACKED with the famous

# Blue Seal Coil

PEAK PERFORMANCE on Every Installation

No matter what the refrigerant, or job size...whether it's a water, or hot gas application...there's a Sporlan Solenoid Valve with the Famous Blue Seal Coil, that gives you that extra protection against burn outs, insulation and moisture failures, plus the time tested Sporlan design that makes Peak Performance a reality every time you install one!

So... get the best, every time... buy Sporlan Peak Performance Solenoid Valves for your very next job. They're Power Packed with the Famous Blue Seal Coil!

Include Sporlan Catch-Alls, See • Alls, Thermostatic Expansion Valves and Distributors with your Solenoid Valve order . . .

Get Peak Performance
Right Down the Line!

Your Sporlan Wholesaler has literature on all Sporlan Products...Be sure to ask him for Bulletin 30-10

SPORLAN VALVE COMPANY

7525 SUSSEX AVE. ST. LOUIS 17, MO.

EXPORT DEPT. 85 BROAD STREET, NEW YORK 4, N. Y.

Circle No. 32 on Reader Service Card







Irving R. Klein and Associates, architects

## "We saved over \$3,000 in construction costs by the use of Styrofoam®"—Grocers Supply Company, Inc.

"We chose Styrofoam to insulate 9,722 square feet of cooler and freezer storage space because we have found an over-all economy in its use, and a specific saving of about ten per cent in both initial cost in installation and in costs of electricity. More than \$3,000, or six per cent of building costs, was saved in the construction of our new plant by the use of Styrofoam." This statement was recently made by George Levit, vice president of Grocers Supply Company, Inc., Houston, Texas.

"Styrofoam," continued Mr. Levit, "is completely effective in maintaining desired temperatures. Our cooler is kept at a constant 35°-37°, and the freezer room stays at minus ten to twelve degrees. We've had no variation in those ideal temperatures since opening our new plant,"

For more information about Styrofoam, write to the downchemical company, Midland, Mich., Department PL1705D-1

#### CHECK THIS EXCLUSIVE COMBINATION OF PROPERTIES

STYROFOAM*	Insulations	Low "K" factor	Superior water resistance	High compressive strength	Light weight	Superior resistance to rot and vermin	Easy handling and fabrication	Low-cost installation	Lowest cost per year service
INSULATION	STYROFOAM	•	•	•	•	•	•	•	•
	A	(COLUMN DESCRIPTION DESCRIPTION DESCRIPTION DE COLUMN DE	•	•	COMPANIAL CONTRACTOR OF THE CO	•	C-10-10-500-MUNICUM DIRECTION DIRECT		preprinted and transfer and
* Styrofaum is a registered frade		•			•			•	
merk of the Dow Chamigal Company	C	•		•					

YOU CAN DEPEND ON DOW

# Choose BOHN Refrigeration Units

Precision-designed and performance-proven to solve your refrigerating problems ... efficiently ... economically

#### LOW TEMPERATURE UNITS

All feature Bohn's unique. hermetically-sealed automatic defrost system . . . eliminates extra wiring, extra piping, costly control valves. All with grained aluminum cabinets, rust-proof fittings, life-lubricated motors.



MODEL LC Unit Cooler For large walk-ins. 6000 to 24,000 BTU/hr. cap. at 10° T. D.



MODEL LM Mullion Lo-Temp For upright freezers. 1400 and 1900 BTU/hr. cap. at 10° T. D.



MODEL LR Unit Cooler for reach-ins and small walk-ins. 1000 to 1900 BTU/hr. cap. at 10° T. D.

#### STANDARD COOLER UNITS

Compact units, all with practical built-in Bohn features, rust-proof fittings and life-lubricated motors, housed in long-life, grained aluminum cabinets. Simple to install, fully tested and warranted.



MODEL HR Half Round For walk-in coolers. 2600 to 10,800 BTU/hr. capacity at 10° T. D.



MODEL C For reach-ins. 1000 to 3000 BTU/hr. capacity at 10° T.D.



MODEL UC Unit Cooler For walk-in coolers. 2600



MODEL U For small applications, 850 to 1500 BTU/hr. capacity at 10° T. D.



**MODEL UM Mullion Unit** ave. 1300 to 2300 BTU/hr. capacity at 10° T. D.



capacity at 10° T. D.



Buy the known line ... the BOHN line



Refrigeration and Air Conditioning Products · Special Heat Transfer Surfaces

**luminum** and Brass Corporation

Betz Division . Danville, Illinois

General Offices: Detroit 26, Michigan

Circle No. 34 on Reader Service Card

for more sales tomorrow...

install

Sehmidt.

today!

Why? Because Schmidt equipment is designed for good merchandising and built for efficient, low-cost operation. It will make friends and money for you!

Just as important, SCHMIDT'S-complete line enables you to install what your customer needs. It will pay you today and tomorrow to recommend SCHMIDT.

Write today for complete line Catalog.

The C. Schmidt Company 1712 John Street Cincinnati 14, Ohio





#### New STORAGE FREEZER with Pan Slides

- Exclusive Selective Automatic Defrost saves up to \$197.60 per year in operating costs!
- Pan Slides are removable, 1%" apart for standard 18 x 26 bun pan to store a variety of merchandise faster—easier.
- 20-year construction, nonsag hinges, tight seal doors.
   43, 68 and 94 cu. ft. capacities. Baked enamel or stainless steel front.



#### New SERV-A-TRAY Case with Tray Slides

- Tray-slides provide 4 times as much capacity!
- Displays, sells, serves salads, desserts, etc. by the trayful, directly in the dining area.
- Relieves congestion . . . no door swing to block the aisle.



#### New Sectional WALK-IN Coolers and Freezers

- Sanitary easy-to-clean Safe-T-Walk floor, flush with door.
- Heavily insulated . . . as much as 60% more than ordinary walk-ins.
- Sanitary zinc-coated steel sections with exclusive Tite-Seal interlock for fast, simple tailor-made installations.
- Exclusive Filter-Flo cooler coil kills germs, prevents mixed odors.



#### New All-Glass Refrigerated DISPLAY CASE

- "Sight-sells" baked goods from front, sides, top.
- Self-contained. Creates impulse sales of high profit and "specialty" items.
- Upgrades appearance and profits of any store.

MEAT & VEGETABLE CASES • SLIDING DOOR RIFRIGERATORS • REACH-INS • REFRIGERATED SHELVING



#### Some things are tough to get at...

The golfer in our picture thinks he has trouble. And he has. But his problem is nothing compared to the problem of the service man trying to get at the tough-to-get-at working parts of some makes of evaporative condensers.

Getting into most condensers for normal servicing of spray nozzles, and float valves for example, is not only tough but almost impossible. Even blasting doesn't provide adequate access.

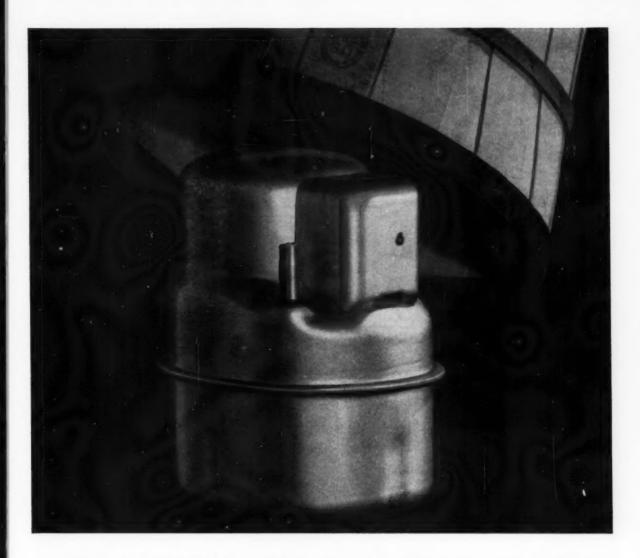
But the situation is much different when a service man meets up with a Recold Dri-Fan Evaporative Condenser because it's designed with a preconsideration of the servicing requirements. With a Recold Dri-Fan the service man turns a few screws and then may actually GO INSIDE ... and he doesn't have to be a midget to do it.

Because of design—with the service man in mind—drift eliminators on the Dri-Fan are easy to get at too. Remove the screws and the assembly slides out as smoothly as a built-in bread board in the kitchen. No gaskets. No sealing compounds. Instead—a patented access door that makes Recold's Dri-Fan the EASIEST-TO-GET-AT condenser—easy to service, easy to inspect.

Don't invest in a condenser that's tougher to crack than Fort Knox. Invest in the condenser that has everything PLUS ACCESS.

#### RECOLD CORPORATION

7250 East Slauson Avenue, Los Angeles 22, California



#### **GUESS WE'VE BEEN HIDING OUR LIGHT UNDER A BUSHEL**

Apparently the story of this highest capacity, smallest size compressor hasn't been heard by everyone in the industry.

This remarkable 24,000 BTU per hour compressor was developed over two years ago by the engineers at Bendix-Westinghouse and has had two full seasons of successful, dependable performance. Its compact shape and size take no more space than conventional 1 H.P. compressors.

While this major development has not been widely advertised, apparently the compressor speaks for itself. Seven of the leading air conditioning manufacturers have standardized on it for this coming season. These leaders

prefer it because of its high capacity and excellent efficiency—24,000 BTU per hour and over 9 BTU per watt. It's the greatest BTU per dollar value to be found in the industry.

In the months ahead, you can expect more and more advanced developments like this from Bendix-Westinghouse. For we honestly believe we have an unusually capable group of engineering and manufacturing people.

In the meantime, if you are looking for ways to increase the capacity of your window or residential air conditioning systems, get the facts on our complete line of compressors.

Bendin-Westingkouse

EVANSVILLE, IND.

A Division of Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio . Export Sales: Bendix International, 205 E. 42nd St., New York 17, N.Y.

Circle No. 37 on Reader Service Card

# Celebrate

## with SCOTSMAN



Circle No. 38 on Reader Service Card
MARCH, 1958 • COMMERCIAL REFRIGERATION

SELL THE

# Golden 50

#### LINE OF

#### ICE MACHINES

Now you can sell the greatest line of ice machines ever offered in the industry! Scotsman—the industry leader—now has 50 models for you to offer. Here's your golden opportunity to sell every prospect who uses ice . . . more sales and profits for you!



YOU'LL CASH IN with Scotsman Super Flakers! Crushed ice by the scoop or by the ton! Scotsman Super Flakers produce the best—small, hard particles of ice that fit every need. There are 24 Scotsman machines to offer your customer. He'll get the right capacity when he picks a Scotsman. You'll ring up more sales, quicker and easier!



YOU'LL CASH IN with Scotsman Super Cubers! There are 8 models with capacities up to 500 pounds per day. If your prospect uses ice cubes, he needs a Scotsman machine. These Super Cubers make the big, round, solid cube—famous wherever beverages are served!



THERE ARE ADDED PROFITS, too, in the Super Bins and Drink Dispensers! They round out the finest line of ice machines you can sell. A wide range of Scotsman Super Bins hold up to 1500 pounds. You'll find that the new combination Drink Dispenser and Ice Machine opens new profit markets for you, too!



Scotsman now offers you 50 models—the most complete line of ice machines in the industry. These Super Cubers, Super Flakers, Drink Dispensers and Super Bins provide numerous profit opportunities. As a Scotsman dealer, you share in golden profits from the finest line of ice machines ever produced! Why not celebrate at Scotsman's Profit Party? Apply today for your golden ticket — the valuable Scotsman dealer franchise!

Send me complete information about a dealer franchise for Scotsman Ice Machines.

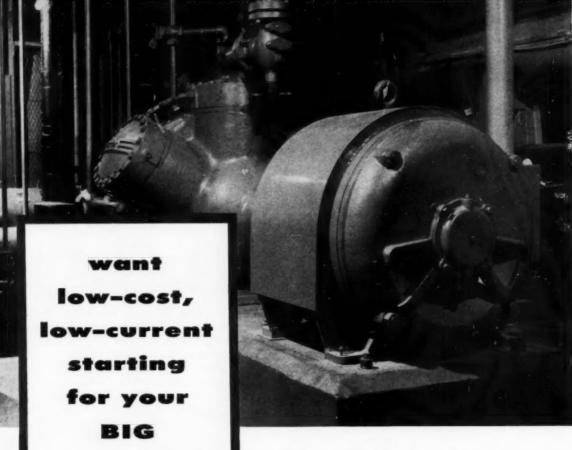
NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY\_\_\_\_\_ZONE\_\_\_STATE\_\_\_\_

Mail to: SCOTSMAN—Queen Products, Inc., 193 Front St., Albert Lea Minn.
Subsidiary of KING-SEELEY Corporation

Circle No. 38 on Reader Service Card



#### **Specify Wagner Increment Motor-Starter Combinations**

Part-winding starting is the simple, inexpensive way to limit the inrush of starting current in squirrel-cage motors up to 500 horse-power—and only the Wagner Increment Motor-Starter Combination gives you all these advantages:

LOW FIRST COST—Uses a standard Wagner Motor and a part-winding starter—no need for auto-transformers or resistors.

**EASE OF INSTALLATION**—Starter is compact and relatively light in weight, connections are simple and easy to make.

MINIMUM MAINTENANCE—The Wagner Motor requires only regular inspection, cleaning and lubrication—the starter needs very little attention.

APPROVED BY POWER COMPANIES—Meets all polyphase motor starting requirements of AEIC—EEI—NEMA—reduces voltage fluctuations—does not open the line during the starting period.

PROVED IN SERVICE—Wagner pioneered this Motor-Starter Combination—has been furnishing it for more than 18 years—its steadily increasing popularity is proof of its efficiency and dependability.

Why not take a look at Wagner Increment Motor-Starter Combination in operation? Ask your nearby Wagner Sales Engineer to show you an installation in your area. See how it works—judge for yourself, and let him help you select the combination that meets your requirements. Just call the nearest of our 32 branch offices, or write for Bulletins MU-128 and MU-195.

Wagner Electric Corporation
6442 Plymouth Ave., St. Louis 14, Mo., U.S.A.

BRANCHES AND DISTRIBUTORS IN ALL PRINCIPAL CITIES

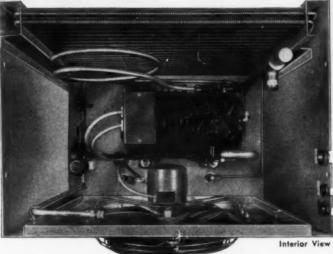
ELECTRIC MOTORS • TRANSFORMERS • INDUSTRIAL BRAKES • AUTOMOTIVE BRAKE SYSTEMS—AIR AND HYDRAULIC Circle No. 39 on Reader Service Card

**MOTORS?** 

Type RP palyphase motor in ratings to 500 hp. with increment type starter.

# new







new!

KRAMER

### THERMOBANK COMPRESSOR

#### **FACTORY PACKAGED at LOW COST!**

Kramer's new THERMOBANK COMPRESSOR overcomes the problems and uncertainties in field assembly of low temperature refrigeration systems. It's the only factory-assembled-and-tested automatic defrost system and includes a hermetic compressor, THERMOBANK re-evaporator and all controls. It arrives on the job ready to operate. Only simple connection to the Kramer evaporator is required and nearly all adjustments are eliminated. THERMOBANK COMPRESSOR uses an extra large air-cooled condenser and a high efficiency low temperature compressor—possible only with THERMOBANK—for maximum capacity at lowest cost. Tamper-proof aluminum case provides easy access to all components and maximum installation adaptability in any unconfined area. Units available on request for outdoor installation are designed for automatic trouble-free operation for any outside temperature.







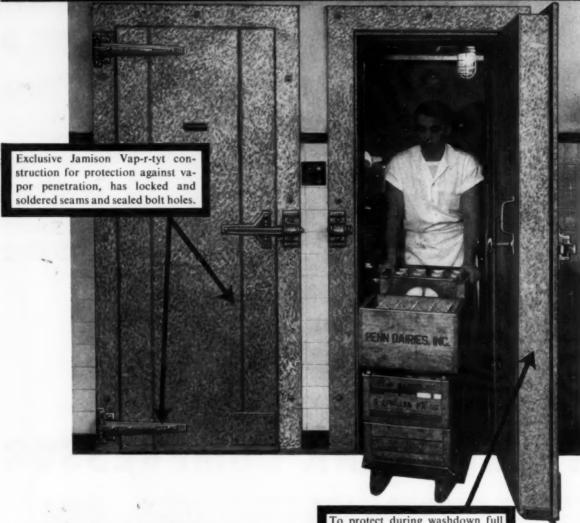
WRITE FOR BULLETIN TC-406

KRAMER TRENTON CO. • Trenton 5, N.J.

44 YEARS OF CONTINUOUS ACHIEVEMENT IN HEAT TRANSFER

Circle No. 56 on Reader Service Card

## Jamison booted VAP-R-TYT\* metal clad door protects against wet floors, frequent washdowns, high humidity



For protection during washdown and when floors are wet a metal boot is formed by applying wrap around metal with locked and soldered seams to all sides and bottom including concealed surfaces. To protect during washdown full length metalcladding on frame, front and back of door.

(frame)



(door)



\*VAP-R-TYT is a Jamison trademark

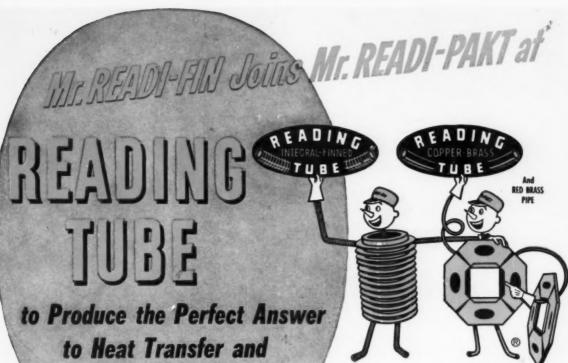
More JAMISON Doors are used by more people than any other Cold Storage Door in the world.

JAMISON GOLD STORAGE DOORS

HAGERSTOWN, MARYLAND

Circle No. 41 on Reader Service Card

MARCH, 1958 . COMMERCIAL REFRIGERATION



Refrigeration **Problems** 

For years, industries that make or use refrigeration or heat transference equipment have learned to depend on READING for more than just copper tube. They know READING "Lektroseal" as the product of Specialists whose entire facilities are concentrated on the fabrication of tubing and tubing alone, from raw material to finished product. That's why that important bonus of reliability goes with every inch of READING output.

Specialized research and engineering, specialized quality control and inspection assure products second to none. Strategically located depots eliminate the problems of time and space. Personalized service delivers exactly what is wanted exactly when it is wanted.

Pursuing its policy of specialization, READING has developed and added to its famous tube products, a line of heat transfer tubing that is setting new records in the field. Preliminary reports from an independent testing laboratory rate this new tubing the lightest in weight and the most efficient of its kind in the entire industry. This product, known as Readi-Fin, cuts tubing requirements by more than 50% and increases efficiency by more than 20%; in fact it cuts the size of units needed and cuts costs too.

Made from one piece of copper, its extruded-extended surface offers maximum heat transference, rugged construction, easy fabrication, freedom from fouling. It's available in Water Tube types with finned or plain ends and in Condenser Tube types with finned, plain or stripped ends. All types are worthy of READING, America's "Tubing Specialists".

For more detailed information - phone, write or wire

# READI-FIN MADE IN U.S.A

#### CORPORATION

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READING, PA Distribution

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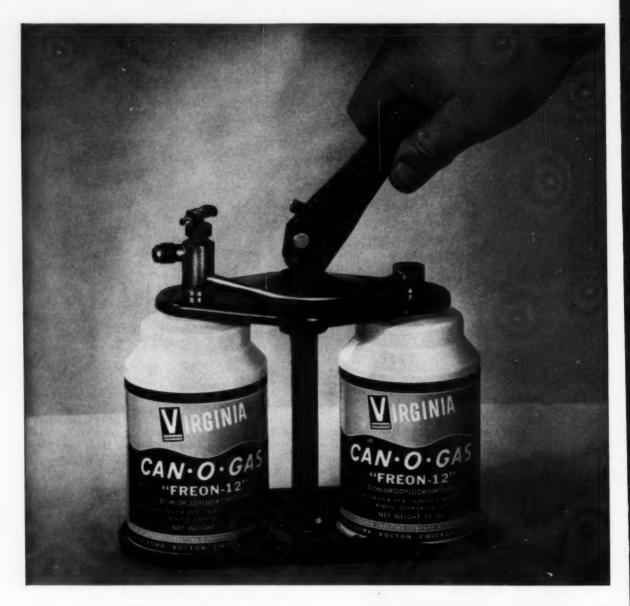
CLEVELAND, OHIO 4615 Perkins Ave

HOUSTON, TEXAS 1121 Rothwell St.

DALLAS, TEXAS 9000 Sovereign Row

Brook Hollow

170 No. Santa Fe Ave Circle No. 42 on Reader Service Card



## For the first time... An accurate field method for adding critical charges of refrigerants

"Virginia's" new Can-O-Gas Multi-Opener provides, for the first time, an accurate method of adding critical charges of refrigerants in the field. With the Multi-Opener No. 2, by means of the proper combination of precision filled weightsof "Freon-12," 15 different fractional charges—from 16 oz. to 30 oz. in ½ oz. increments—can be delivered with an accuracy of plus-or-minus 4 grams.

By use of the 3-can Multi-Opener No. 3, 31 different fractional charges are possible, from 24 oz. to 45 oz., also in ½ oz. increments. These novel, new Multi-Opener units are easy to operate, and are virtually indestructible. And the throw-away feature of Can-O-Gas containers completes the picture of the convenience of Can-O-Gas Multi-Openers charging. Can-O-Gas Multi-Openers deliver the refrigerant in the gas phase or—when inverted—in the liquid phase.

Order a supply of Can-O-Gas Multi-Openers No. 2 and No. 3 today for accurate field charging.

Circle No. 43 on Reader Service Card

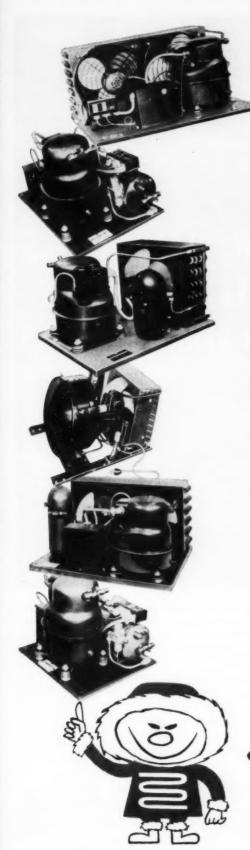
Refrigeration Division
VIRGINIA SMELTING COMPANY

237 Jefferson St. West Norfolk, Virginia



ESOTOO • V-METH-L • CAN-U-GAS • VASCO-CEL • PERMAGUM PRESSITTE TAPE • XWIKWRAP • SUNISO REFRICERATION OILS WATER TREATMENT CHEMICALS • SALES AGENT & REPACKER FOR "FREON" REFRIGERANTS

Available in Canada and many other countries



for the **size** you need... the **capacity** you want... the **quality** you expect...

.....Specify Lehigh!

**BLU-COLD HERMETIC CONDENSING UNITS** 

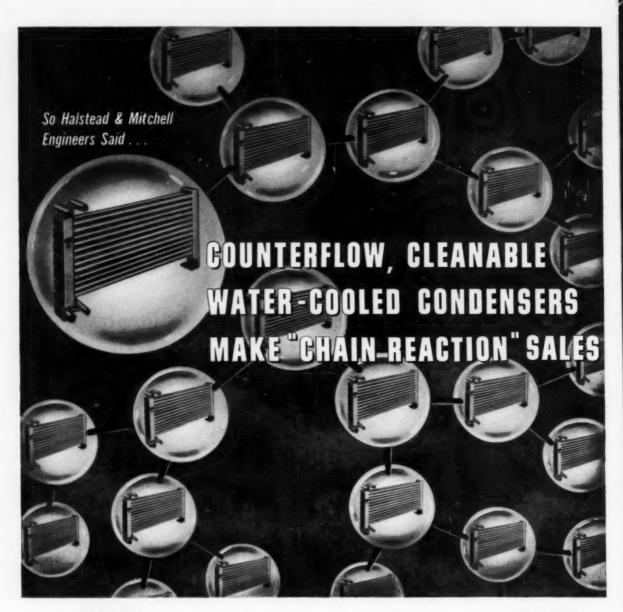
Any size, from 1/5 to 2 H.P. for any application, commercial or industrial. Send for new 4-page catalog sheet.





LEHIGH MANUFACTURING COMPANY, Division of Lehigh, Inc., Easton, Pa. Manufacturers of Open Type and Hermetic Condensing Units and Compressors. EXPORT DEPT.: 13 East 40th Street, New York 16, N. Y.

Circle No. 44 on Reader Service Card



A CHAIN REACTION—one sale leads to another when users experience the twin advantages of H&M's Water-Cooled Condensers—peak efficiency and lowest maintenance.

Double-tube design and counterflow introduction of water and refrigerant assure most efficient heat transfer. Refrigerant flows through the outer tube and the water through the inner tube for maximum heat interchange.

Removable headers permit easy water tube cleaning with a simple, accessory cleaning tool. Scale and sludge

which reduce heat transfer are removed without harmful chemical cleaners. Condenser capacity is maintained at clean-tube performance ratings for unit lifetime.

Condenser compactness makes these units ideal for conversion of under-capacity air-cooled refrigeration systems. All H&M units are U/L approved for use with refrigerants -12 or -22.

Call your wholesaler or write Halstead & Mitchell, Bossemer Building, Pittsburgh 22, Pa.

#### ONLY HALSTEAD & MITCHELL OFFERS THIS WIDE CHOICE

HEAVY DUTY (Type T) condensers have a highly favorable fouling factor and are designed for long service between cleanings. ½ through 25 tons.

STANDARD DUTY (Type EL) are made with extended surface water tubes, ideal for water-cooled systems under all average conditions. 1/3 through 3 tons.

REPLACEMENT CONDENSERS (Type R) are shorter, higher condensers designed for use in package air conditioners. Easily installed. 1½ through 10 tons.

SEA WATER CONDENSERS (Type SW) are made with cupro-nickel water tubes and naval bass headers for resistance to impure water. ½ through 25 tons.



Circle No. 45 on Reader Service Card

Ease of Prefabricating REVERE COPPER WATER TUBE

> a big factor in proving copper costs less than rustable material to install



N this newest Dallas hotel there were 60,000 lbs. of Revere Copper Water Tube in diameters ranging from %" to 2\mathcal{Y}" used for hot and cold water plumbing lines and chilled water lines for air conditioning.

tion was the various sub-assemblies used. (See upper left photo) According to Mr. Brown of the BROWN-OLDS COMPANY, mechanical contractors on the job, "The prefabrication of the sub-assemblies saved many hours of installation time, thus making a copper job cost less than rustable materials to install. But that's only one reason we prefer copper water tube. Not only is time saved with the solder fittings used, but you can work in the tight spots without worrying about wrench space. You are always sure of tight joints, and sub-assemblies can't work loose in handling. Then, of course, there is never any corrosion problem, so we always feel confident of doing a good job when we use copper water tube."

These same outstanding characteristics of Revere Copper Water Tube also make it the preferred material for radiant panel heating, underground service lines, drainage, waste and vent lines, oil burner and

processing lines.

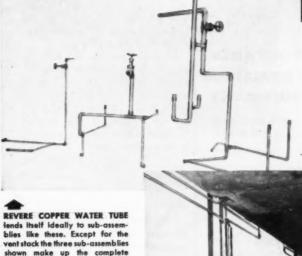
#### THE STATLER HILTON HOTEL Dallas, Texas

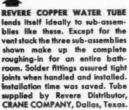
A most interesting feature of this installa-

REVERE COPPER AND BRASS INCORPORATED

Founded by Paul Revere in 1801 230 Park Avenue, New York 17, N. Y.

Mills: Rome, N. Y.; Baltimore, Md.; Chicago, Clinton and Joliet, Ill.; Detroit, Mich.; Los Angeles and Riverside, Calif.; New Bedford, Mass.; Brooklyn, N. Y.; Newsport, Ark.; Ft. Calboun, Neb. Sales Offices in Principal Cities, Distributors Everyuebere.







CHILLED WATER CIRCULATING SYSTEM of Revere Copper Water Tube showing expansion loops and risers which are carried out through the entire periphery of the building. All tube will eventually be insulated as shown. Note absence of joints when easy-to-bend Revere Copper Water Tube is used. It would have been necessary to cut 8 threads and make 8 fittings, in this one set of loops alone, had rustable pipe been used here.

PHOTO SHOWS a complete roughing-in of two abutting baths, together with copper drainage lines from the two bathtubs in the bathroom above. Easier fabrication, less space requirements and the non-rusting qualities of copper are the reasons for using this material for these drainage lines on

Circle No. 46 on Reader Service Card

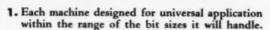


For drilling holes 3 through 9" O.D.

Medel A Truce Diamond Drilling Machine; 1000 rpm meter. For drilling holes 1" through 5" O.D.

Medel E Truco Diamond Drilling Machine; 300 rpm air motor. For drill-ing holes 5° through 14° 0.D. Medel F; 475 rpm, for drilling holes 3° through 10° 0.D.

#### TRUCO PORTABLE DIAMOND DRILLING MACHINES and EQUIPMENT



- 2. All machines designed for use with 110 V current, 60 cycles or less.
- 3. Smooth, clean holes cut quickly, quietly and with pin-point accuracy. Eliminates hammer and chisel work, noise, dust, break-out around edges, follow-up patching and big clean-up job.
- 4. Can save its cost in a single day's use in air conditioning, plumbing, tile setting, electrical maintenance, utilities work.
- 5. Pivot permits drilling at any angle through 360°.
- 6. Telescopic post locks unit between floor and ceiling or between walls for rigidity. Column slide bracket locks on post at any point, gives complete vertical adjustability.
- 7. Easy one-man drilling in any location because machine is demountable and easy to set up and operate.

WRITE FOR NAME OF NEAREST DISTRIBUTOR

#### **Truco Swivel Division** WHEEL TRUEING TOOL CO.

32-3200 W. Davison Ave. . Detroit 38, Michigan



TRUCO DRILL MOTOR and SWIVEL KIT

Heavy duty 2500 rpm drill motor; integral Water Swivel attached; complete in carrying case—weighs 17½ lbs. Drills holes up to 1½ in all masonry except where reinforcing bars may be encountered. Excellent for anchor holes.

Circle No. 47 on Reader Service Card



Take a good look at the 1958 air conditioning specifications in this issue. They're different than any you've ever seen. For the first time in the industry we are presenting them by product type rather than by application.

Manufacturers like this new approach. It has made it easier for them to list their various lines of equipment without duplication or confusion. We feel sure that readers will enjoy these same benefits in being able to select or compare models without regard to end use.

Turn to page 73 and see for vourself!

"There's a silver lining through the dark clouds shining . . ." so go the lyrics of an old World War I ballad. And now, through the gloom that seems to have enveloped the air-conditioning industry, comes a bright ray of promise in the building forecast just released by Architectural Forum magazine.

During the next 10 years, Forum predicts a construction boom of "dazzling" proportions, with expenditures rising 50% over those of the past record decade. A staggering \$600 billion will be spent on construction between now and 1967, the magazine estimates, compared with \$409.6 billion from 1948 through 1957.

This golden vision of the future is based on studies just completed by the magazine's economic consultant. These studies indicate that during the next 10 years both business and residential building will be up 70%, and school building will be up 45%. Tremendous additional outlays will be made



Truce Hand Swivel Drill Meter mounted in Truco Drill Stand for drilling holes 1° through 3½° 0.0. in vertical or horizontal posi-tions with machine anchored to wall.

Available in standard sizes from ¼ " to 14" O.D. Standard Lengths are 4½" and 12". Custom Bits available in lengths and O.D.s other than those listed.

for hospital and church building, the report predicts.

What such a boom will mean to the entire air-conditioning industry should be obvious. So let's all put away the sackcloth and ashes and start building for the solid future this business is sure to enjoy.

"Buy American" — that's the theme of an advertising campaign being conducted by the U.S. copper and brass industry in an effort to combat the growing gravity of the import problem.

This campaign stresses the excellent manufacturing and performance standards of American-made products, and the service and responsibility of American producers.

Through the Copper & Brass Research Association, the industry has recommended immediate relief for American manufacturers to help them meet the threat of low foreign labor costs.

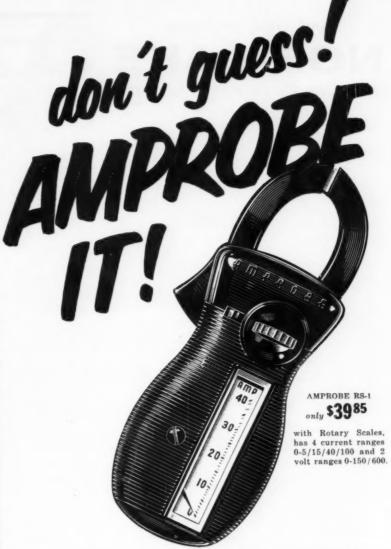
This relief would take the form of an interim quota pending further investigation and hearings. Then, if proved justified, permanent relief would be made available.

Air-conditioning will share in the vast viewer-interest bound to be stirred up by a new half-hour filmed weekly TV program series that will make its debut in some 200 cities this spring.

This "Building America" program is specifically designed to promote the building industry and allied businesses. Frigidaire Div. of General Motors will be represented by stories on air-conditioning and kitchen appliances.

Four 1-minute periods in each program are being sold to local advertisers, giving dealers and contractors an excellent opportunity to promote their own products and services to a receptive audience.

Color in commercial refrigeration cases has come a long way since it was first introduced a few years back. At first it was hailed as simply "something dif-



There's nothing like an AMPROBE for fast and profitable trouble-shooting. Wrap-around feature makes it simple to read current without shutdowns. Multiple current and voltage scales permit you to test most everything in sight with a single instrument.

There's an amprobe for every job, every budget...from 10 amps and 250 volts to 1200 amps and 600 volts AC. Prices from \$19.85 to \$67.50—so you can't afford not to own one. See them at your jobber today. Pyramid Instrument Corp., Lynbrook, N. Y. Manufacturers of famous REMCON simplified low-voltage switching devices. In Canada: Atlas Radio Corp., 50 Wingold Ave., Toronto, Canada.

#### 13 models to make your work easier, faster, surer



Know if load is balanced



Check appliance voltage at receptacle

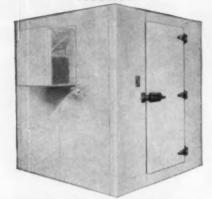


Take current readings without shutdowns

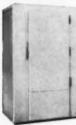
#### cool, cold, or frozen

#### **NOR-LAKE**

answers all your refrigeration needs!



NOR-LAKE's All-Metal, Walk-In Cooler leads the field with: • New and amazingly compact NOR-LAKE Plug-In Panel for guaranteed power (optional) • Exterior of Cooler is rugged 20 ga. cold rolled steel • White baked enamel finish • Interior of galvanized sheet steel • Oil-sealed hardwood floor to lock out moisture • Fiberglas insulation. The NOR-LAKE all-metal, walk-in cooler is shipped in easy-to-put-together sections. Also available in stainless steel.



NOR-LAKE's Reach-In Refrigerators come in every size with: • Fiberglas Insulation • Hermeticallysealed compressor . Automatic defrosting unit Choice of baked enamel or stainless steel finish • Available also with triple thermopane glass door.

NOR-LAKE's Sliding Door Beverage Cooler offers you: Durable stain-less steel sliding doors Welded doors • Welded steel constrution



• Heavy gauge
galvanized liner •

1/3 H.P. sealed compressor • Adjustable temp.
control • 3" Hi-Density Fiberglas Insulation.

These are just three models in NOR-LAKE's complete line of coolers, refrigerators and freezers. For free details on the entire line or any specific model, simply fill in and mail the coupon today.

NOR-LAKE	Coolers	Freezers	Refrigerators		
My type of	operation	(Restaurant, store	, institution, etc.)		
NAME					
ADDRESS_					
CITY		STAT	E		

Circle No. 50 on Reader Service Card

courtesy DRAYER-HANSON and E. B. BOMAR

# AIR-CONDITIONED



- 1. First Presbyterian Church
- 2. Central Methodist Church
- 3. 3300 Building
- 4. Central Medical Bidg.
- 5. Arizona State Highway Dept.
- 6. Carl Hayden High School
- 7. Rose Lane School
- 8. Madison School No. 5
- 9. Madison School No. 6
- 10. St. Joseph Nurses Home 11. First National Bank, Thomas & Central Branch
- 12. Egyptian Motel
- 13. Sands Motel

- 14. Highway House Motel
- 15. Valley Ho Motel, Scottsdale
- 16. Down Town Motel
- 17. Motorola Research Lab.
- 18. Motorola Western **Electronic** Center
- 19. Republic & Gazette Newspaper
- 20. Arizona State Hospital
- 21. Flamingo Motel
- 22. Park Central Shopping Center
- 23. Central Investment Co.
- 24. Banks Medicaj Bi
- 25, KTVK Television Studios

The Burst-At-The-Seams activity that is today's Phoenix, Arizona, can best be measured by these discrisified Drayer-Hanson air conditioning installations, recently sold by the E. B. Bomer organization, 914 W. Madison Street, Phoenix ...

One of D-H's live-wire local-area Teams rein your engineering-application problems!



Request name of Sale , Agent nearest you

drayer-hanson

3301 MEDFORD STREET LOS ANGELES 63, CALIFORNIA

Circle No. 49 on Reader Service Card MARCH, 1958 . COMMERCIAL REFRIGERATION ferent" than the traditional white. Then it became a means of blending fixtures with a store's decor. Now Bally Case & Cooler Co. claims to have exploited all of the psychological advantages of color in selecting the hue for its new line ice cream cabinets.

"In selecting this color," says sales manager Leon Prince, "we sought one single color that would do several jobs. It had to attract, remind, appeal, and inspire. It had to please store operators and not clash with existing fixtures. It had to be a color that customers would associate with the pleasure of eating ice cream. After much scientific study, color engineers came up with a light, happy shade of yellow that met all the requirements. Its appropriate name — Lemon Ice."

Best way of bucking any downward sales trend is to build better dealers. Recognizing this fact, Janitrol Div. of Surface Combustion Corp. last year organized what it calls its "Select Dealer" program.

This dealer group is dedicated to the idea of improving consumer service on the local level. Along with Janitrol, they have committed themselves to regular technical and sales training, frequent courses in business management, and consistent 52-week planned local advertising programs.

Result? Although the program has been in operation less than a year, the company is convinced that the investment in time and money by these dealers has paid off. Says Janitrol's general sales manager Harry C. Gurney: "In spite of a sales decline of over 15% in the industry, the sales of our Select Dealer group have shown no decline!"

#### DISTRIBUTION EXPANDED FOR FIBERGLAS DUCT

"Fiberglas" duct materials, for heating and air conditioning units, now are being distributed on the local level to appliance and air conditioning equipment dealers, sheet metal contractors, and wholesale firms, according to Owens-Corning Fiberglas Corp.



Like so many air-conditioning engineers all across the country, the engineers\* on each of these noted Kentucky buildings specified Thermaflex, the new lightweight air conditioning ducting...and for good reason.

Thermaflex is so highly flexible that it can be led over, under or around any obstacle and through the most confining, tortuous passages without any special tools, elbows, fittings or skills. This permits the installation of air conditioning in many buildings where the furred ceiling space is restricted.

Two types of Thermaflex are now available: Thermaflex-A



which was used on the buildings above, and its recently introduced, low-priced companion line, Thermaflex-ST. Both ductings are flameproof, waterproof and extremely strong and durable. For complete information on Thermaflex, write Dept. 63.

\*E. R. Ronald & Associates, Louisville Proctor-Ingels Engineers, Lexington

#### Flexible Tubing

CORPORATION

**Guilford, Connecticut** 

Anaheim, California

Hillside, Illinois

Circle No. 51 on Reader Service Card

#### **FURNAS ELECTRIC**

CONTROLS HELP YOU REDUCE COST AND SPACE REQUIREMENTS



Magnetic Starters in 10 sizes to 100 hp. Furnas starters for control of high horsepower compressors offer the exclusive Furnas "in-between" size starters with dual voltage magnet coils.



Step or Cushion Starting permits the use of larger motors by limiting the inrush current on starting. These methods reduce or completely eliminate objectionable line disturbances due to full voltage across-the-line starting. Furnas Electric offers a complete line of Increment, Auto Transformer and Resistance-type Step Starters.

Furnas contactors feature 20, 24, 30, 35, 40, and 50 ampere sizes to match starter requirements. Silver cadmium oxide contacts for longer life. Floating armature insures quiet operation.





For full information write for Bulletin 5610, 1112 McKee St., Batavia, Ill.

A42

FURNAS ELECTRIC COMPANY

SALES REPRESENTATIVES IN ALL PRINCIPAL CITIES

Circle No. 53 on Reader Service Card

NOW ... WITH TOPS IN 6 DECORATOR COLORS OR STAINLESS ... UNIFLOW WATER COOLERS WALLEL DWG EYE APPEALING COLORS. . AT NO EXTRA COST! SPRUCE GREEN BURGUNDY FOOT PEDAL CONTROL STEEL

Write for our brochure with prices and complete information

WE PUMP
WE SOFTEN • WE FILTER
WE COOL • WE FREEZE
WE KNOW WATER!



QUALITY REFRIGERATION PRODUCTS SINCE 1932

UNIFLOW MANUFACTURING COMPANY EAST LAKE ROAD, ERIE, PENNSYLVANIA

Circle No. 52 on Reader Service Card
MARCH, 1958 • COMMERCIAL REFRIGERATION

# PEERLESS REDI-PAK PUMPS: FROM WAREHOUSE TO DEALER, OVERNIGHT!



That's right! Peerless has individually sealed and packaged 22 sizes of pumps from its famous end-suction Fluidyne line, in popular sizes from 1 to 15 hp. These versatile, efficient pumps will handle virtually any general purpose pumping requirements. Their clean, compact design means a made-to-order fit in any piping or pumping layout. Their rugged, built-to-last construction makes them ideally suited to installation indoors or out, to duty that's continuous or intermittent. You name the job and there's a Peerless REDI-PAK to handle it. There's performance for your customer and profit for you in the Peerless REDI-PAK line. Write for full information.



PEERLESS Fluidyne. REDI-PAK PUMPS



Putting Ideas to Work

FOOD MACHINERY AND CHEMICAL CORPORATION

**Peerless Pump Division** 

Plants: LOS ANGELES 31, CALIFORNIA and INDIANAPOLIS 8, INDIANA

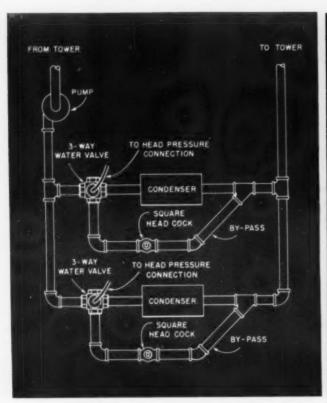
FOOD MACHINERY AND CHEMICAL CORPORATION • PEERLESS PUMP DIVISION • 2005 Northwestern Ave., Indianapolis, Indiana

Please send me Peerless Pump Bulletin No. 8-2319.

NAME POSITION ADDRESS

CITY\_\_\_\_\_ZONE\_\_\_STATE\_\_\_\_

Circle No. 54 on Reader Service Card





# New Penn 3-way water valves for cooling tower service MAINTAIN UNIFORM HEAD PRESSURES to give maximum cooling efficiency!

#### DESIGNED TO ASSURE MOST ECONOMICAL AND EFFICIENT USE OF COOLING TOWER REGARDLESS OF SURROUNDING AIR TEMPERATURE AND HUMIDITY

Now...you can get full capacity and efficient operation from water-cooled commercial refrigeration and air conditioning equipment with Penn's new 3-way water valves. These pressure-actuated valves will maintain correct and uniform refrigerant head pressures regardless of the water temperature from the cooling tower.

This new water valve senses the head pressure, then its 3-way action automatically allows cooling water to flow to the condenser, to by-pass the condenser, or flow to both condenser and by-pass line as required for maximum cooling efficiency. Even when the condenser does not require cooling, water flows through the by-pass line to the tower. Thus, an adequate head of water is provided at the tower so it can operate efficiently with a minimum of maintenance on nozzles and wetting surfaces.

These Series 3246 water valves are available in  $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1" and  $\frac{1}{4}$ " sizes. Similar in design to the famous Penn 246 valve... all internal parts are of aluminum bronze to resist acid water attack... and, of course, range spring and sliding parts are not immersed in water.

Try the Series 3246 on your next cooling tower job ... it will solve the problem efficiently and economically. Ask your wholesaler for the full story.

#### PENN CONTROLS, INC. Goshen, Indiana

EXPORT DIVISION: 27 E. 38th ST., NEW YORK, N.Y.

AUTOMATIC CONTROLS FOR HEATING, REFRIGERATION, AIR CONDITIONING, APPLIANCES, PUMPS, AIR COMPRESSORS, ENGINES

Circle No. 55 on Reader Service Card



#### Let's Keep Sales Cost in the Price!

N the "Let's Talk Business!" page of the January issue, we discussed the price war that seems to be taking place in the air-conditioning industry. Many comments on these remarks have been received from dealers, contractors, wholesalers, and even some manufacturers. For the most part, those making the comments agreed that there was a great lack of confidence in the so-called price sheet, and that this lack of confidence was affecting the sales abilities of the salemen.

Frankly, we're convinced that it doesn't stop there. We strongly feel that this price situation is affecting not only the salesmen but also all other members of the industry — the servicemen, the installation mechanics, the wholesaler's employees, and certainly the manufacturer's personnel. In fact, the jobs of many of these people are in jeopardy if this mad chase to beat the lowest reported price continues.

It's certainly no secret that each time a concession is made in the price of a product, some corners have to be cut in producing or distributing the product. These cuts may be in labor cost or they may be in material cost. But if my eyes and ears don't deceive me, many of the current price concessions are being made at the expense of those services that normally go into selling the product.

Salesmen are being cut loose — and certainly they should be if they are non-productive. But you can't expect one remaining salesman to do two salesmen's work.

Educational programs aimed at the sales, installation, and service levels are being reduced or eliminated because of the lack of funds.

Sales aids such as product literature, display setups, and direct mail pieces are being held up or chopped out entirely. Advertising at both the national and local level has been drastically reduced.

We realize that inventories have to be moved, but elimination of these normal services that are needed to sell the product to the end user — just to make it possible to offer the product at a lower price — will only lead the industry into more difficulty.

This business is in an enviable position because we have an extremely low percentage of saturation of the available market. But we are not going to increase this saturation level to any great degree until we convince this market (and this means the American people as a whole) that they need the benefits our products have to offer.

Internal competition is healthy, but let's not permit this present price war to blind us to the fact that as an industry we are in competition with hundreds of other products for the consumer's dollar. If we fail to properly promote our product to these people, we can price air-conditioners at a dollar a dozen and still go begging for customers.

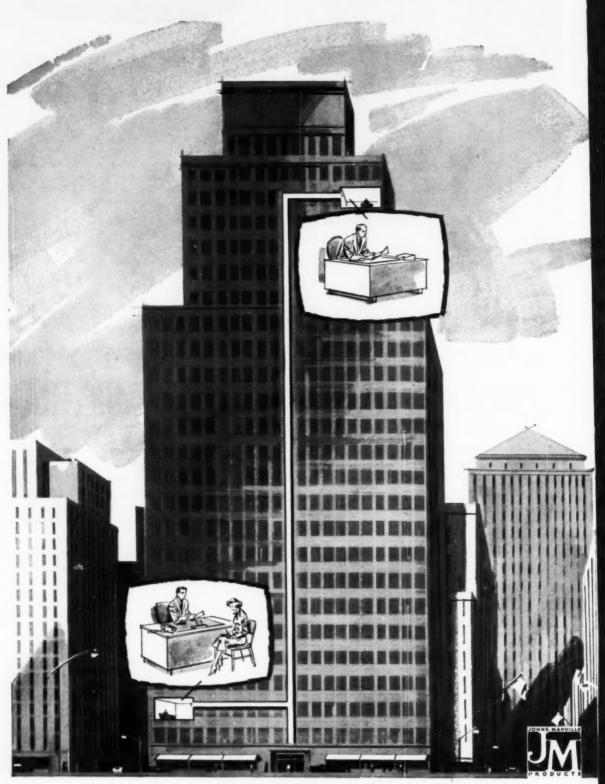
Let's keep the price of salesmanship in the price of the product.

Good luck and good selling.

Thom Min

EDITOR'S NOTE: Thom Muir invites you to write to him regarding any sales problem that you might wish him to discuss. Address your letters to him in care of this magazine.

#### Mr. Smith is 600 duct feet farther from



Circle No. 33 on Reader Service Card
MARCH, 1958 • COMMERCIAL REFRIGERATION

the fan room than Mr. Jones, yet ...

# both men work comfortably at the same temperature!

when ducts are fitted square and tight with Johns-Manville semi-rigid Spintex Insulation

 $S_{ ext{emi-rigid}}$  spintex ${ ilde{s}}$  works two ways to lessen heat loss, stop condensation: first, with low conductivity ... then, with its square, tight fit. The structural strength of this material, which is fastened snugly to duct surfaces with pins and clips, prevents "ballooning" due to duct leakage. And butted or mitred joints eliminate stretching and thinning of the insulation at corners. Instead, there's a full thickness of Spintex-with full protection against heat loss and condensation—over the entire duct area.

This two-way "edge" in insulating effectiveness is the big reason why leading engineers everywhere specify semi-rigid Spintex . . . for factories, institutions and office buildings of every description.

Produced by a new Johns-Manville spinning process, today's Spintex offers more insulating value than ever. Its mineral fibers are smaller in diameter, and substantially more uniform. This improved fibrous structure adds countless heat-blocking dead-air spaces per cubic inch to help keep working temperatures precisely the same throughout the structure ... with minimum operating costs!

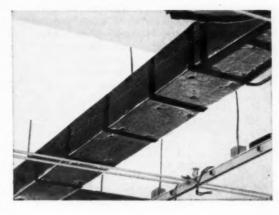
Your Johns-Manville sales representative will be pleased to send you information, along with samples of Spintex and J-M facing materials. Why not call him today. Or write Johns-Manville, Box 14, New York 16, N. Y. In Canada, 565 Lakeshore Road East, Port Credit, Ontario.

LESS HEAT LOSS... NO CONDENSATION AT CORNERS! Semi-rigid (not flexible) Spintex fits squarely and tightly all duct surfaces. Stretching and thinning at corners, unavoidable with wrap-around insulations, are eliminated completely. Instead, Spintex retains full thickness everywhere to stop heat loss and condensation. Its structural strength prevents "ballooning."

#### FACED FOR ANY SPECIALIZED NEED!

J-M offers you a facing to meet any vapor condition, incombustibility requirement or decorative need. Provides good base for plaster finish . . . or where no facing is indicated, Spintex presents an attractive appearance with trim, tidy joints.

INSTALLS QUICKLY... ECONOMICALLY.
Spintex is clean, sanitary and "friendly" to handle. It cuts readily with an ordinary knife. Installs quickly, easily, even when ducts are curved or in difficult-to-reach areas.



OHNS-MANVI

Business Philosophy Planning Ahead for Profits Organizing for Effective Contro

by GEORGE C. WEBSTER, president, George C. Webster and Associates, Inc., Management Consultants

### **Budgeting** — or

DO YOU HAVE ANY IDEA what your Profit and Loss Statement will look like at the end of next month, next quarter, or next year? If you don't you're in trouble. It means you haven't been properly budgeting your business activities, or planning ahead for profits.

Budgeting is a distasteful word to many of us, but it's an essential ingredient of any successful business operation. If you don't plan ahead for profits, chances are there won't be any profits.

That's why sales, gross profit, and expenses should be estimated or budgeted in advance. It gives you a chance to predict whether or not the profit available at the end of any predetermined period will be satisfactory. If it looks like it won't be, now is the time to do something about it.

Don't be misled, however. There is no exact science involved in any such prediction. There is no foolproof way of assuring its accuracy. But while the weakness of budgeting is this possibility of error, its strength lies in the fact that it forces management to set down in painstaking detail the cold figures that can guide any business to more satisfactory operation.

In fact, a sincere attempt to set up budgeting in a company can prove of value, even though the budget itself is never used.

MANAGEMENT CLINIC: Need help on some of your specific management problems? George Webster offers CRAC readers the benefit of personal consultation by mail. Simply send your questions to him, c/o this magazine. He will answer you directly — and without charge.

REPRINTS of this article—and eventually the entire series—will be available. Price of this one: 35¢. Send order and payment to Reprint Dept., Commercial Refrigeration & Air Conditioning, 812 Huron Road, Cleveland 15, Ohio.

What are the specific advantages of budgeting? Here are some of the things it does for you:

It develops in you, and in other members of your firm, skills which make the results of your business efforts more satisfactory over the years.

It requires you to set up an adequate and proper organization working together toward a common aim. (Organization will be discussed in more detail in next month's article.)

It compels you to demand adequate historical accounting data. (There will be more about accounting in a future article.)

It instills in you, and in others on your management team, the habit of timely, careful, and adequate consideration of all factors before reaching important decisions.

It forces you to give timely and adequate attention to the *effect* of expected trends in general business conditions.

It aids you in obtaining bank credit, which, of course, is based on your future ability to pay. (More about financing also will be presented in a forthcoming article.)

It forces you to periodically make a critical analysis of your company.

It pinpoints the efficiency — or lack of efficiency — of your organization, and tells you when operations are satisfactory.

The first step in budgeting is the Sales Forecast—the prediction of your volume for the next year and the years to come. To make this forecast you will need your sales figures for at least the last five years. If possible, these figures should be broken down by the major categories of your business, such as commercial refrigeration, commercial or residential air-conditioning, heating, and service.

You also should have trend figures covering your marketing area for the same period or longer on such

MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
counting as a ol of Control	Control of Expenses	Control of Job Costs	Control of Sales	Control of Advertising	Financing Your Operations	Employee Relations	Simplified Budgeting for 1959

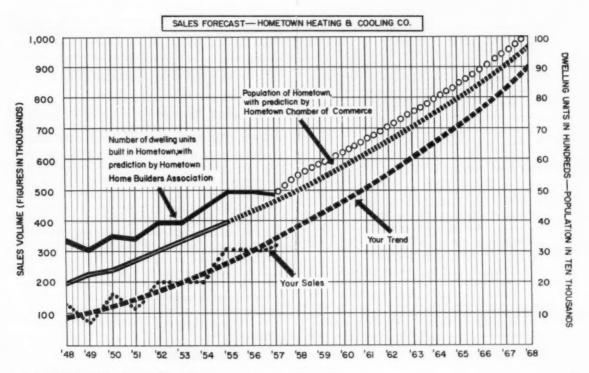
## Planning Ahead for Profits

indicative factors as population, number of dwelling units, amount of construction, number of electric meters, per capita income, employment, or any other statistics relating to the economic growth of the community. These figures generally are available from the local Chamber of Commerce, local government agencies, and public utilities.

You should try to uncover any economic forecasts or market surveys made for your area, as these will be helpful to you in making your own forecasts. It is possible that your distributor or manufacturer has made forecasts in your area, or at least can furnish you with statistics on industry sales in your area of products you handle.

You should talk to other businessmen, bankers, and even competitors, to get a feeling of the economic outlook. Read what the business columnists of your local newspapers have to say. Reports in trade journals are often helpful. So are predictions of trade associations.

Now get lots of graph paper, a ruler, and some sharp pencils of various colors. Along the bottom line Continued on next page



of the graph write in the years. Go back as far as your figures are available, but at least five years. Also go forward at least five years.

On the left hand vertical side of the graph indicate levels of sales volume. Make sure that you have room on the paper to go well beyond your present volume. Plot in each known point, year by year. Then connect all these points. This line will represent your actual sales curve.

Now, in a pencil of another color, try to draw a smooth flowing line that reflects the general pattern of the jagged, point-to-point sales curve you have already plotted. Project this line (but lightly) about five years into the future, ignoring existing conditions that may affect the current year's volume.

This is your trend line. If you have a philosophy of growth, the curve will be concave, as shown in the accompanying illustration.

#### Growth Curve Should Be Concave

If your growth curve shows as a straight line, even though a steadily rising one, your business is really slipping downhill. If you can't understand how this could be true, just plot a straight line on the graph and you will quickly see that the year to year increases steadily become a smaller and smaller percentage of the previous year's sales.

Now draw in curves based on the economic data for your area that you have collected. Draw each one in a different color, and use appropriate designations on the vertical line at the right hand side of the graph. Now look at these curves and note their general shape. Do they tend to coincide with the pattern indicated by your own trend curve?

Remember, no one can determine the future course of any business with absolute accuracy. But the use of this technique improves your accuracy and is infinitely better than refusing to make a formal prediction. As you gain experience in this technique of sales forecasting, your ability will improve. Your degree of accuracy will improve along with it, and you should find the whole idea fascinating.

#### Forecast Each Product or Service

The same process used in forecasting your company's over-all sales volume now should be applied to each class of product or service you sell, to see if it is following the general company trend. These curves should point up individual weaknesses in any phase of your operations that need attention.

Always remember to keep your sales objective in line with your installation capacity and your financial strength. Never project your sales curve beyond your own ability to keep pace with it.

When you feel that your next year's forecast reflects a proper extension of your trend line, weigh your next year's sales estimate against current economic conditions that may have an immediate effect on your growth.

For instance, if you are in a steel town and steel is down this year, employment also will be down, and consequently your sales may be off the trend. You can check this against the effect that any previous recession in your area has had on your sales.

When you have arrived at a final estimate of next year's sales, break it down by month, according to the average monthly percentages of your business in the past. Give due consideration to any changes in the monthly sales pattern that might affect your seasonal breakdown.

#### Check Figures Month by Month

Draw a graph of the monthly figures for the past three years and check it against your projection, to see if this projection looks realistic. In general, the best month of any previous year will not often be exceeded in your forecast.

Your sales forecast should be realistic. It should allow for a recession if you foresee one. It should take into consideration such factors as competitive conditions and the demand for your goods and services.

It should be weighed against your own ability to meet the goal you have set, as well as against your organization, facilities, and capital. But also it must reflect your own business philosophy on growth, and your personal desires for the future.

It has been assumed in making this forecast that your prices will remain as competitive as they have been in the past. Obviously, if you lower your prices your volume will go up and your gross profit down.

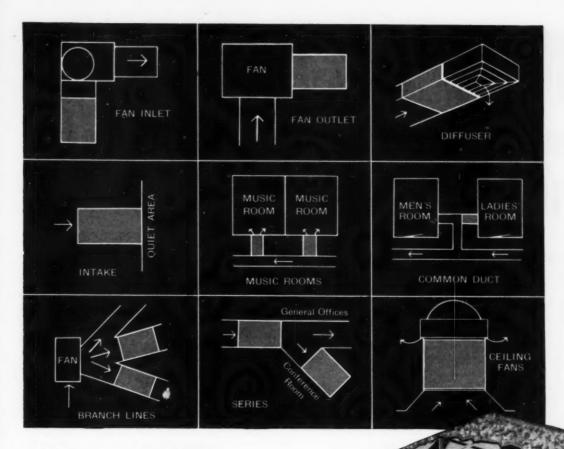
This volume-profit relationship will be taken up later in this series in the article devoted to accounting. This article will describe a method of analysis called a "break-even chart". If, after making such an analysis, you decide to lower or raise your price level, you might raise or lower your volume forecast accordingly.

#### Sales Forecast Is Starting Point

Not only is your price level related to sales, but expenses, sales costs, financing, organizational size, facilities, and similar factors also are related. In any budget program it is the sales forecast that is the starting point, because it is the volume of business you will do that will determine the other budgets.

As we develop the other budgets in future articles, you may find it necessary to revise your sales estimates in keeping with any limitations that may be imposed. This is a normal experience in budgeting. Each part is related, and each must be in balance before figures can be finalized.

Only by this process can you be assured that your entire operation is geared to the most economical use of labor, materials, facilities, and capital. Only by this process can you be assured that profit will flow from your efforts as the result of a plan, and not just by happenstance.



# Every Building Needs Aircoustat

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Eliminate disturbance, distraction and irritation caused by noises escaping from one area to another through ductwork.

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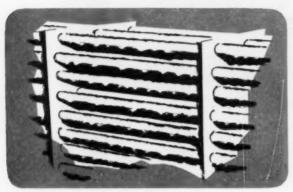


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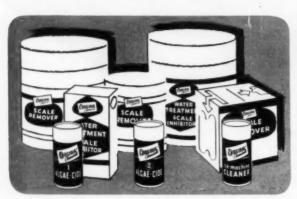
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by Arthur H. Farr

#### Use Building Structure To Cut Air-conditioning Costs

PRICE IS AN IMPORTANT FACTOR in almost every airconditioning job. All other things being equal, the contractor who can provide the most cooling for the least money has the best chance of making the sale.

All too often the air-conditioning engineer overlooks the possibility of using the building structure as a functional part of the air-conditioning system. In so doing he fails to take advantage of a saving in cost that might mean the difference between getting the contract and just being the second bidder.

There are many ways of doing this. They will vary with the individual characteristics of the building being air-conditioned and with the ingenuity of the installing contractor.

Here are some practical suggestions, however, that may help you hold down costs on a wide variety of applications:

#### Use of Plaster or Masonry Ducts

Often you can design an air-conditioning system in such a way that you can use plaster or masonry ducts in place of sheetmetal ducts.

Many commercial buildings today are of one-storyand-basement constructon, with the air-conditioning equipment room in the basement. One way you can handle a building of this type is to run the supply duct to the first floor ceiling and then branch off into insulated feeder ducts supplying each separate space.

Here's a less expensive—but very satisfactory—alternate design you can use. Construct an extended plenum of lath and plaster around the periphery of the basement ceiling. Then insert 3½ x 14" metal collars in the floor slab to connect this plaster duct to perimeter air diffusers installed at the baseboard on the outside wall of each conditioned room.

This design also lends itself to a more economical return air system. Blanketing the outside walls of the space with supply air often makes a common center hall return to the unit practical.

You should follow good insulating practices just as carefully with plaster or masonry ducts as with metal ducts. Lath and plaster have some insulating value, but not enough for every application. For instance, if a plaster duct is to be run any considerable distance with a cold outside wall forming one side of it, a layer of insulation should be applied to this outside wall to prevent excessive heat loss or heat gain to the duct itself.

Where masonry ducts are used, it is better to regulate space temperature with a room thermostat rather than with a return air duct controller having the sensing bulb located in the duct. The storage effect of the mass of masonry can prevent proper control of space temperature.

#### Suspended Ceiling as a Return Air Plenum

In many applications you can use a suspended ceiling in place of a complex system of supply ducts. The most commonly used types of ceiling supply systems are the perforated ceiling plenum, the luminous plastic ceiling plenum, and the plastered ceiling with separate outlets.

The perforated plenum is often used in vestibules where a high ratio of supply air cfm to floor area is required to offset infiltration through entrance doors. A packaged air conditioner can be recessed into a sidewall of the vestibule, drawing return air from the entrance area and discharging through a steam or hot water coil into the suspended perforated ceiling plenum.

You can erect ceilings of this type with either standard accoustical tile boards or perforated metal pan-type ceiling panels. In designing such a system be careful to measure the area of the holes in one tile or one panel to determine the free area for air passage, and the velocity the supply air will have in passing through the ceiling.

The luminous plastic ceiling plenum has enjoyed increasing popularity in banks and commercial buildings where fairly high light intensity is required. Fluorescent fixtures are installed above the ceiling. The ceiling thus serves to conceal the fixtures and to diffuse the light softly and evenly.

The plastic sheets are held in place by suspended T-bars. This arrangement provides ample opportunity for the supply air to diffuse into the area below the ceiling. In addition to allowing air circulation, the plastic ceiling acts as a radiant surface for heating or cooling over the entire conditioned area.

Don't use this type of ceiling in a closed vestibule or entranceway, because the updraft from wind infiltration through opening and closing doors can lift the plastic up off the T-bar supports.

You can use a suspended lath and plaster ceiling in place of a branch duct system by closing off the Continued on page 157

#### Simplify Air Conditioning Control Panels with

# RANCO "CONTROLS

Compact, Ranco "G" Controls were developed for air conditioning control panel designs to take less space, are easy to install and are readily adaptable to your specific product.

Ranco "G" Controls include both high and low pressure models with automatic or manual reset; low pressure cycling controls with (for factory use only) or without differential adjustment; and dual pressure controls by pairing combinations of single controls. Three different switch assemblies provide ratings from pilot duty, intermediate to high ampere switching capacity in single pole, single or double throw action.

For further details call or write to Ranco Inc., 601 West Fifth Ave., Columbus 1, Ohio.



### Here's How PROFITABLE SERVICE AND INSTALLATION PRACTICES

### No Thermal Short Circuits on this Insulation Job

THE IDEAL WAY to build a low temperature room is to completely envelop the space with an unbroken layer of insulation.

This is generally hard to do because of structural demands. But in completing the addition to its Ocala, Fla., plant, the food processing firm of Libby, McNeill & Libby succeeded in overcoming these difficulties.

Basically, the insulating problem in construction of this type is to avoid "thermal short circuits" through the columns supporting the roof, or around the conventional beams where they join the sidewalls. In the Libby plant this ways accomplished by using a cellular glass insulation.

This made it possible for the erectors of the room to lay the floor, cover it with insulation, and then actually support the columns on concrete pads bearing directly on the insulation.

The roof structure was supported by the columns. The cellular glass insulation was laid on the roof decking. Sidewalls were erected and insulated. Sidewall insulation was tied into the floor insulation, and extended up the wall and through a space left between the walls and the roof decking. This made it possible to link the sidewall insulation directly to the roof insulation.

Concrete then was poured over the floor insulation, and a builtup roof was laid over the roof insulation. Walls were simply painted with aluminum paint. The result was an unbroken envelope of insulation around the refrigerated area.

Walls of the room were back-

plastered and primed with an asphaltic cutback. Two layers of 4"thick "Foamglas" were then applied with hot asphalt.

Roof deckir, was formed of corrugated transite sheets with "zonolite" concrete used to fill the corrugations and make a flat surface on which to lay the insulation. This deck was mopped with hot asphalt before the two layers of 4" Foamglas were applied.

A minimum 9" clearance was left between the walls and roof decking to allow the wall insula-Continued on page 154



FROM ROOF TO FLOOR this low temperature storage room is surrounded by an unbroken envelope of insulation. Roof deck is supported by interior columns that rest on floor insulation. Sidewall insulation extends up through gap left around perimeter of roof deck and is joined to roof insulation laid on top of deck.





### Sales help when needed is just one reason I suggest American Blower Packaged Air Conditioners



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### Commercial Refrigeration & Air Conditioning Magazine

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### COMPRESSOR

Type - H

SH. Semi-hermetic
O Open

Make — T. Tecumseh
C Copeland
B Brunner
BW Bendix-Westinghouse
O Own make

Hermetic

### AIR FILTER

Type — T ..... Throwaway
C ..... Cleanable

### CONDENSER TYPE

A. Air cooled
W. Water cooled
R. Remote
(example: AR. Air cooled, remote)

### HEATING TYPE

R Reverse cycle heater
E Electrical strip heater

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d min	271/2 251/2 251/2	27%	281/2	33 1/2 36 36	551/2	LaCrosse	22%	24%	291/2	351/4	401/4	Indianapolis	28	28		24%	27%	27%	- pwol	277/10	277/8	м.	18, Tex.	36	6 60	48	4	Cooling	301%	30%	3016
Including Plenum H	Ave., 59	933%	%86	107%	8.8	Ave.	88	951/2	104%	61 1/2	2/17	aim St.,	63	2 8 2	"Frick"	81	86%	947/8	Marshalltown,	9/119	651/4	**Uses furnace filter.	Ave., Dallas,	99	808	90	08	leating &	52	55	8.8
W In	Kienlen 25 38	22	78	101	126	Cameron	40%	48%	70%	109%	71%	Montcal	23	33	Pa. I	38	32	82		223%	28	**Uses	Ross Av	96	128	128	44	Home Heating	21	2 2	2.5
BTUH (ASRE)	38,040 63,400	95,100	190,200	253,600 310,000 365,000	484,000	Second & C		***************************************	***************************************	**********	***************************************	Co., 2020		90,000	Waynesboro,	39,000	92,350	184,700	tries, Inc.,	36,000	900'09	n 3 phase.	Co., 1112 F	125,100	255,000	316,600	**Optional		24,000	36,000	900 09
Model No.	Curtis Mfg. CA-400A CA-600A	CA-800A	CA-1600A	CA-2200A CPU-2500-30 CPU-3000-30	CPU-4000-43 CPU-5000-50	Trane Co., S.		75SC 105SC	155SC	1025CE 1525CE	2025CW 2025CE	Bryant Mfg.	•	5-590	Frick Co., Wo	300	750	1300	Lennox Industries, Inc.,	CB11.301*	CB11-501*	*Also available in 3 phase.	Alton Mfg. C	RE-10	RE-20	RE-25	*Schnocke	General Electric Co.,	FE20J	FE25J	10531

(Complete of	(Continued)
CONTRIBUTION	
O V	
DACKACER	
CHICCO	COOLED
MATER	MAIRE

Model	Capacity BTUH	_	Cabinet Size (In.) Including Plenum	In.)		Compressor			Compressor Motor	Motor	,	Blower		Blower Motor		Evap. Cell Face Area No.		Refrig.		4	Air Filter		N N
Therm-Air Mfa.	C ASKE	000	Division S	St. Peel	Peekskill.	N Y	3	eathertrol"	Phose	Voltage	0	CFM	KFM	No.	1	134. FT.	-1	.0			200	100 1111.7	10.7
COM2 182	24,60	23		3.0	Ξ	1750	-	2	7	208/220/230	-	900	:	-	2%	2.75	4	22	:	-	g= 1	20x25x1 20x20x1	450
COM3	36,800		47	31	Ξ	1750	-	69	7	208/220/230	~	1200	4	-	%	2.75	4			_	-	20x25x1	825
COMS	60,800		519	281/2	Ξ	1750	-	90	7	208/220/230	-	2000	*******	1	1/2	4.13	*	27	* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PN	-	16x23x1	8
COM71/2 LB71/5	94,400		76	28½ 25	SH	1750	U	71/2	6	208/220/440	-	3000		-	*	8.8	4	22	*****	e	1	15x30%x1	88
1.810-1	120,400		841/2	25	HS 1	1750	U +	10	8 6	208/220/440	- 0	4000				9 34	*	33		4 4	-	14x20x1	1250
1815	188,800		841/2	900	E E	1750	- U	(2) 71/2	ח ריו	208/220/440	4 64	9009	* :	4 54	1 1/2	11.0	4	22	* 0 0 0 0 0		900	16x20x1	90
LB20 LB25	300,200	283	841/2	888	E & &	1750	000	(3) 7%		208/220/440	~~~	10,000		~ ~ ~	0 0 ×	19.25	444	222		-0 00 00		16×20×1 16×20×1 16×20×1	3600
Cross Co.	83	chiasa	Ave. Chic	Chicago, III.	1.		,		,					-									
U.AC1.30		351/2		2514	HS		U	en	7	230/208/220	-	1200	989	-	%	2.7	4		-			14%x25%x1	178
U-AC1-50	61,000		837%	263/4	SH		U	49	7	230/208/220	-	2000	680	-	1/2	4.4	4		6	- 1		1/2×343/4×1	1031
U-ACI-75 U-ACI-100	121,000	57	89%	30%	E E	# 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	υυ	71/2	n n	208/220	P P4	4000	680	n n	22	0.0	4 4	12 2	26	N 01	500	29 1/4 x 22 1/2 x 1	1705
U-AC1-150	182,000		921/2	311/4	HS.	:	U	(2) 71/2	6	208/220	2	9009	760	2	3/6	13.5	40		12	- ~		14%x29%x1 29%x29%x1	3250
H-311-W H-511-W			58 3/4 6.5	191/2	F 55	1750	٠.	en 40	77	230/208/220		1200/0.25"			22	3.47	N 10	12 1	= 3	- 2	j= j=	25x25x1 16x25x1	780
Westinghouse																							1
Airtemp Div.,	U	Corp.	1600 Webster St.,	bster St		Dayton, Ohio	1	Airtemp"															600
1003-41	36,800	35	833%	193%	I ?	1750	00	m 10		230	- 0	2040	220		* 2	3.2	rs er	12	1200	- 0	-	22x22x1	360
1008-21	90,000		93%22	19%	3.	1750	00	71/2	- 84	220	1 61	3000	1030	-	1 12	5.2	9		12.0	5		22×22×1	1001
10111	132,000		65	28	SH	3300	0	10	PN	220	2	4060	785		11/2	7.46	m		191/200	90		16%x18x1	1385
1015†	180,000	58	105	32	SH	3500	0	15	N	220	2	5950	610	1	2	12.08	**		30	10		=	1676
2540	41.3	126	991/2	25	SH	1750	00	9 9	7.	220	en e	16,000	672		wn w	28	4 4		170	12		16x25x2	7200
2545	45.5	126	98	7 7	S. H	3500	00	(3)15	9 17	208/220/440	n en	16,000	672	-	מיי	28	4		06	12			7100
2645	45	194	86	54	SH	3500	0 (	(3)15	C4 6	208/220/440	en e	16,000	672		200	28	4 4		000	12		16x25x2	0000
2560	0 6	130	113%	00 W	5 5	1750	00	8 8	m m	208/220/440	n m	24,000	501		71/2	42.5			000	24			2,000
2575	70.4	180	11.5	7.0	SH	1750	0	7.5	7	220/208/440	7	30,000	446		10	52	4		25	24			4,900
2675	100.1	306	113%	840	3 3	1750	00	100	77	220/208/440	4 4	30,000	446		15	52 69.3	4 4	22 3	300	24		-	18,000
2520	286,000	96	104	35	35	3500	0	(2)10	2	208/220/440/550	ex	8750	480	-	64	17.5	4	22	40	60	. 50	(6)16x20x2 (2)16x25x2	3100
3636	331 000	70	101	77	773	3500	0	01(1)		008/000/000/800		10 000	620			17.5	*	23	09	60	90	(6)16x20x2 (7)16x25x2	3130
0000	287 000	2 2			3	2000	) (	2110		308/320/440/550		12 000	009			17.6			9		90	(6)16×20×2	3170
†Also avai	†Also available in 2 or 3 phase.		*High Velocity.		Unit sh	"Unit shipped with h	olding	charge.	Ţ	400/440/440/330	4	7,000	2		,				3	,			
Mitchell M	Mfg. Co., Div.	r. of Cory	Corp.	3200 W.	Pote	Peterson Ave	., Chicago,	Igo, III. —	- "Mitchell"	rell"													
\$-200-1*	27,600	31%	78%	24	II	1725	<b>⊢</b> ⊨	Nes		230		1200	730		22	3.06	m 4	22	3.2		1 22	221/4×20×1 221/4×20×1	463
\$-500-1* 6  *Available in 3 phase.	63,000 3 phase.		86 1/4	261/4	I	1725	<b>-</b>	W)	_	230	2	1850	780	-	4/1	4.45	m		9.0	~		ZOXI GXI	2
Stewart-Warner	orner Corp	Heating	& Air	Conditioning		Div. Leb	gnon.	Ind.															
SC-W-A-5	45,000		77.1/4	22			-	49	7	230/208/220	7	1850	*******	2	3%	4.28	4	22	5%	2	T 15	15x305/6x1	730
Janitrol He	Janitrol Heating & Air	ir Conditioning	oning Di	Div., Surface		Combustio	on Corp.	. 400 Dublin	olin Ave.	. Colembus, Ohio	0												
SAC36-45	36,900		%09	26		1725		6	-		-	1200	875	-	1/2	2.53	4	22	2.7	2	-	16x25x1	490
SAC60-45	63,700	401/2	400%	26	<b>T</b> 3	1725	(m )s	2 & 3	7.	230/208/220		2000	006		22	4.15	44	22	2.0	~	-  -	20x25x1	765
00.000 MAG	20,000	2/,00	97.78	0.4	E	2911	Þ	•	,	000/ 640		2000	200		*		,						!

WATER COOLED PACKAGED AIR CONDITIONERS (Continued)

The Considerate in the Lought Are & E. Sverin St., St. Pari, Min. — "Uning Ai"   1909	### Candidates   1,	Model No.	Capacity 87UH (ASRE)	Cobi Incli	Cabinet Size (In.) Including Plenum	26	Type C	Compressor	Make	÷	Compressor Phose	or Meter Voltege	ž	Blower	RPM	Blower No.	Metor	Face Area (Sq. Fr.)	Rows	Refrig. No. (lb.)	(9)	No.	Air Filter Type Size (In.)	te (In.)	
The state of the control of the cont	The state of the s	Mayflower / wac-3 wac-3	Air-Cendit 24,000 36,000 60,000		61 1/5 61 1/5 61 1/5 61 1/5		mi	Seventh	2	Paul.	1			800 1200 2000			222	10	444	222	111			Ox25x1 Ox25x1 6x25x1	443
1,000   1,00	## 1,000   18,4   19,00   1   19,00   1   19,00   1   19,00	8		. 1300 41%	-	Ave., 5		8, Mo. – 1750 1750	- "AFC			2		850	6-800 6-800		22	3.15	w 4	22	219%	20		6x25 6x25	
The state of the s	Second Color	BVC-2T BVC-3T BVC-3T BVC5T-2	60,000 24,000 36,000 60,000	28 1/2 28 1/4 28 1/4 42 3/4	40% 23 23	24% 24% 24% 29%		1750 1750 1750 1750		50 00 00 to	7777	230/220 230/220 230/220 230/220	nn	2000 800 1200 2000	6-800 6-800 6-800		2225	3.15	4044	2222	219/2 31/4 47/2	48		6x20 0x25 0x25 0x20	
Company   Comp	### ### ### ### ### ### ### ### ### ##	prican	ower Div.	of Amer	can-St	dard,		-				"American Blo	wer"		1		;	1							
1,00,000   64   67   67   67   67   67   67   67	10,000   64   774   78   78   78   78   78   78	30	36,000		85%	24		1750		es vs	77	230/208/220/44		1200	787		2%	3.62	e e		٥ =	~ ~		5x171/5x1	
10,000   64   974   974   975   97	ong France Co., Nedira, Ohio — "Mortriel Beart Corp., 851 W. Third Ave., Columbus, Ohio — "Amstrong" 19,000 84 194 194 1750 • 1217 9 2 208/220/440 2 8000 954 1 3 14249 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	000	90,000		87%	30		1750		10	e e	208/220/440		3000	623		- 2	10.08	en en		15	~ ~		2x211/2x1	
The control of the	The first intered Ca., Div. of Netheral Union Electric Carp. 831 W. Third Ave., Columbus, Ohio —"Amatrong" 707 18 18 18 18 18 18 18 18 18 18 18 18 18	1007	120,000		87%	30		1750		(2) 5	000	208/220/440		4000	662		22	10.08	000		22	. 04 1		2x291/2x1	
Trace Co., Medica Dilo. 6 19 19 19 19 19 19 19 19 19 19 19 19 19	The library of the l	2007	240,000		0 0	31%		1750		(2)10	2 02	208/220/440		8000	594		2 42	19.33	2 62		48	n 4		x25 1/4 x l x25 1/4 x l	
### State Ca. Div. of National Union Electric Corp., \$51 W. Third Ave., Collection Cong. Funace Ca., Div. of National Union Electric Corp., \$51 W. Third Ave., Collection Co., 200 0.000 150 0.000 1	## State Co., Div. of National Union Electric Corp., \$51 W. Talio Avec. Columbia. Ohio — "Amstrong" 770   15, 28   12   2   1   1   1   1   1   1   1		**Half in eacl																						
Second 37   77   21%   1790   C   3   3-1   200/220/2004440   1700   270   1 %   28   5   12   5   1	8,000 457, 874, 214, H 1759 C 3 3 3 2 28/27/80/440 1 7000 780 H 5, 28 5 12 5 1 5 5 5 1 5 5 5 1 5 5 5 1 5 5 5 1 5 5 5 5 1 5 5 5 5 1 5		urnace Co	Div.			Electri	c Corp.	851	Third			-	"strong"											
Furnace Co.,   Medina, Ohio —   Monocrief"   Furnace Co.,   Medina, Ohio —   Medina, Oh	Furnace Co., Medina, Ohio — "Moncrief"   Furnace Co., Ohio — "Moncrief"   Furnace Co., Ohio — "Moncrief Co., Ohio —	cuc	36,000	37	77	21 1/2		1750	U	67 4		208/220/280/44	- 0	1200	780°		%	2.8	10 1	12	10 1	,		1/2×301/2	80
130,000   77   874, 29%   1750   C   (2) 5   3   200/220/444   2   400   590   1   1   1   1   1   1   1   1   1	120,000   27   174, 294, H   1750   C   (2) 7/4   3   209/220/440   2   4000   640°   1   1   1   1   1   3   4   1   2   4   3   C	OUC.	90,000	55%	87%	29%		1750	υ	7%	J 6	208/223/440		3000	510°		23	6.4	0 4	12	n 4	- ~		7½x38	103
Furnace Co., Media, Ohio — "Montrief"   Furnace Co., Media, Ohio — "Montrief of the furnace Co., Media, Ohio — "Media,	Furnace Co., Medita. Ohio — "Material"   1750 C (3) 7/6 3 200/220/440 2 6000 590*   1/6   13.3 4   12 4 3 C	JUF .	120,000	72	1/4 28	291/4		1750	U	(2) 5	m	208/220/440		9000	640*	-	-	8.5	4	12	4	100		01/2×20	212
France Co., Medito. Ohio—"Moncrief" 1  4,400 39; 894, 191, 192 1 320 1 3200,023* 800 1 1; 4.0 3 12 1 1 1 233341  1	Firstee Co., Meditec, Oble — "Monerief"  1. 41,400 30 46 4 48 4 1735 T	Variable	180,000	98	7/166	291/4		1750	U	(2) 71/3	m	208/220/440		9009	290	-	11/2	13.5	4	12	4	e		/2×24%	264
1,000   36 \text{inche in 2 phase.}   1,000   36 inche in 2 ph	1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0		S.			oncriet																			
State   Stat	State   Stat	1.312.W*	41,600	30	583/4	191/2		1725	⊢:	e 4		230		1200/0.25"			%	8.3		22	6:	- 0		5x25x1	52
State   Co., Elyrid., Ohio	The material Corp., Elyrid, Ohio — "Luxaire"   The material Corp., Elyrid, Ohio — "Luxaire"   The material Corp., Elyrid, Ohio — "Luxaire"   The material Corp., Elyrid, Ohio — "Luxaire   The material Corp., Ohio — "Salvaire   The material Corp., Ohio — "Salvaire   The material Corp., Ohio — The material — The material Corp., Ohio — The material	Also available in	3 phase.	W.	estinghouse	0		200		0		959		2000/0007			7.5	9.	,	71	=	7		0x23x1	78
1,000   30   30   30   10   10   10   10	Heat, 1210 McGavek St., Nashville, Temi. —"Bal-Air"   5   1   230   1   1200/0.25" 800   1   15   4.0   3   12   1   2   1   1   1   1   1   1	A Olson	18	Elvri	hio - "L	"axaire																			
Illabelin 3 photo:	Illable in 3 place.   **Westinghouse   **Mestinghouse	13611	3	300		101/	3	1796				050		1300/0001			37			00					200
The color of the	Inc., 1210 McGaveck St., Nashville, Tenn "Bal-Air"   230,220   800   780   1/4   2.25   3   12   8   1   C   24,000   36   77   314, 514   1750   C   3   1-3   230/220   1   200   786   1   1/4   2.25   3   12   12   12   12   12   12   12	-511-W* Also available in	60,000 3 phase.	361/2 361/2	65 stinghouse	26		1750	-:	י יח		230		2000/0.25"		-	22	4.0	n en	12	?=	- 01		5x25x1	78
24,000 36 77 28% 5H 1750 C 3 1—3 230/220 1 200 776 1 % 2.25 3 12 8 1 C 1841841  9,000 46 97 31% 5H 1750 C 10 7% 3 230/220 1 200 776 1 % 2.25 4 12 12 12 12 15 1 C 1843841  9,000 46 97 31% 5H 1750 C 10 7% 3 230/220 1 200 776 1 % 2.0 4 12 12 12 12 12 12 12 12 12 12 12 12 12	24,000 36 77 31% 5H 1730 C 3 1—3 230/220 1 200 786 1 1/4 2.25 3 12 8 1 C 5 6,000 46 94 31% 5H 1730 C 17/4 3 230/220 1 200 786 1 1/4 2.25 3 12 12 1 C 5 6,000 46 94 31% 5H 1730 C 17/4 3 230/220 2 200 786 1 1/4 2.12 4 12 13 1 C 7 190,000 60 94 31% 5H 1730 C 17/4 3 200/220 2 200 786 1 1/4 2.0 5 12 22 2 C 1 7/4 3 200/220 2 200 786 1 1/4 2.0 5 12 22 2 C 1 7/4 3 200/220 2 2 200 786 1 1/4 2.0 5 12 2 2 C 1 7/4 3 1 1/2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	al-Air, Inc.,	1210 McC		f., Nashv		1	Bal-Air																	
86,000 38 77 31% SH 1730 C 5 1 1—3 230/220 1 1200 786 1 1% 4.12 4 12 12 12 1 C 1842341 90.00 6 94 31% SH 1730 C 5 1 1—3 230/220 1 2000 786 1 1% 4.12 4 12 12 12 12 12 12 12 12 12 12 12 12 12	Second   S	C-2	24,000	36	72	281/2		1750	U	64 (		230/220	-	800	780	-	1/4	2.25	3	12				lx18x1	98
February   120,000   60   94   331% SH   1730   C   71% 3   208/220   2   3000   760   1 % 5   12   12   12   12   12   12   12	Variable	500	36,000	200	200	2.15		1730	<b>.</b>	m 4		230/220		2000	795		. /3	2.5	4 -	12	12			5x25x1	118
Fegineering Corp., 401 Third St., S. E., Cedar Rapids, lowa — "Century"           24,000         26         51         26         1         7         800         1         76         1         76         1         76         1         76         1         7         1         7         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         8         1         1         1         8         1         1         1         8         1         1         1         8         1         1         1         1         1         1         1	Fengineering Corp., 401 Third St., S. E., Cedar Rapids, lowa — "Century"           36,000         26         51         26         1         74,000         26         51         22         6         1         T           36,000         26         51         26         1         1200         1         100         1         10         1	C-71/2 C-10	90,000	999	2 7 7	33%		1750	, , ,	10,7%		208/220	- 00	3000	760		2.8.3	5.0	4 nd nd	22 22	22 22			1x25x2 1x25x2 1x25x2	2464
24,000 26 51 26 H 1725 T 2 1—3 230 1 800 1 1/4 22 6 1 T 3 1—3 230 1 1200 1 1/4 22 6 1 T 3 1—3 230 1 1200 1 1/4 22 6 1 T 3 1—3 230 1 1200 1 1/4 22 6 1 T 3/4,2304	24,000 26 51 26 H 1725 T 3 1—3 230 1 800 1 1/4 22 6 1 T T 3 1—5 230 1 1200 1 1/5 22 6 1 T T 3 1—5 24,000 36 59/4 28/4 28/4 5H 1725 C 12/7/4 3 220 1 1200 Var. 1 1/4 2.8 5 22 15 1 C 8/4,000 85/4 88/4 28/4 SH 1725 C 12/7/4 3 220 2 4000 Var. 1 1/4 13.3 4 22 30 3 C 2 2 4,000 Var. 1 1/4 1725 C 12/7/4 3 220/230 1 800 Var. 1 1/4 13.3 4 22 30 3 C 2 2 4,000 Var. 1 1/4 1725 C 12/7/4 3 220/230 1 800 Var. 1 1/4 13.3 4 22 30 3 C 2 2 2 1 C 2 2 2 1 C 2 2 2 1 C 2 2 2 1 C 2 2 2 1 C 2 2 2 1 C 2 2 2 1 C 2 2 2 1 C 2 2 2 1 C 2 2 2 1 C 2 2 2 2	2				2	9	Ranids.	9	Cen	"Anna														
36,000 26 51 26 H 1725 T 3 1—3 230 1 1200 1 1/2 2 6 1 T **  1-U.S. Radiator Corp., 944 Ash St., P. O. Box 1047, Johnstown, Pa. —"Capitolaire"  36,000 45/2 25/2 21/2 5H 1725 C 5 5 1 200 Vor. 1 1/2 200 Vor. 1 1/2 20 1 2 1 C 13/3-381 11  84,000 55/2 29/2 5H 1725 C 7/2 3 220 2 4000 Vor. 1 1/2 8.5 4 22 19 2 C 20/3-2321 11  120,000 72 874, 29/2 5H 1725 C (2) 5 3 220 2 4000 Vor. 1 1/2 8.5 4 22 30 3 C 20/3-2321 11  120,000 72 874, 29/2 5H 1725 C (2) 7/3 3 220 2 4000 Vor. 1 1/2 13.5 4 22 30 3 C 20/3-23/21 12  120,000 86 99/4 5H 1725 T (2) 7/3 3 220/230 1 1200 Vor. 1 1/2 1.5 4 22 30 3 C 20/3-23/21 1  24,000 86 99/4 5H 1725 T (2) 7/3 1 — 3 220/230 1 1200 Vor. 1 1/2 1.5 4 22 30 1 C 13-27/2-1 1  24,000 87 87 87 87 87 87 87 87 87 87 87 87 87	36,000 26 51 26 H 1725 T 3 1—3 230 1 1200 1 1/5 2.8 5 1 T T 23 1—3 230 1 1200 1 1/5 2.8 5 1 T		400			26		1725	-	64	7	230	-	800	******	1	1/4	******	:	22	40		_		400
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(Continued)
CONDITIONERS
AIR
PACKAGED
COOLED
WATER

Continue Div., General Motors Carp., 300 Taylor St., Dayren, Obto — "Frigidatio".   200   130		Model No.	Capacity BTUH (ASRE)	Cobi	Cabinet Size (In.) Including Plenum	ln.) wm D	Type	Compressor	or Make	±	Compr	Compressor Motor Phase Voltage	Š.	Blower	RPM	Blow No.	Blower Motor No. HP	Evap. C Face Area (Sq. Ft.)	Coil Rows	ž	Refrig.	No.	Air Filh Type	Air Filter Type Size (In.)	Wr.
### Subject Corp., \$201 Flushing Ave., Masperh, L. L., N. Y. — "Fedder"  ### Air files spiles   25,000   29   20%, 3   4   1723   1   1723   1   20   1   1180   1100   1100   1100    ### Air files spiles   25,000   29%, 31%, 34%, 34%, 34%, 34%, 34%, 34%, 34%, 34		Frigidaire   ASW-300-21*		al Motors 40 40 40 67 67 hase.	88% 88% 88% 93% 93%	22% 28 28 28 29% 29% 29% 29%	SH S	Dayte 1725 1725 1725 1725 1725 1725		1	ain in i			1260 2000 2700 4000 5300	815 845 1040 760 700		2232 2	2.85 4.2 5.95 9.4	चच्छाचच	22222	93/2		:::::	29%x15½x1 29%x29%x1 29%x29%x1 20x25x1 20x25x1	735 880 1065 1630 1845
## Note		Fedders-Qu 136W-3 Return air filt	ilgan Corp., 36,000 er optional.	29		36%	aspeth	L L,	f. Y	"Fedder	- 1,8	230	-	1180	1100	-	*	2.0	-	22	99	-	<b>-</b>	12x30%x1*	315
WW         200,000         70%         73%         65         710         8         70         3         200         2         8000         723         1           WW         200,000         70%         73%         6         710         8         710         3         200         2         8000         723         1           WW         200,000         78%         77%         48%         O         730         8         7115         3         200         2         8000         723         1           WW         300,000         78%         77%         6         800         8         1115         3         200         2         10,000         635         1           WW         300,000         78%         70         80         8         (1115)         3         200         2         10,000         635         1           WW         200,000         134         104         0         107         8         (1116)         3         200         2         10,000         635         1           100         100         100         80         100         100         100         100		United Star		591/2 591/2 591/2 701/2	Corp., 61% 51% 73%	7900 423/4 483/4 553/5 523/4		Rd., Phi 735 1750 890 1750	9	2 2	=	RONN	r-Aire"	4000 6000 6000	765 765 690 690		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6.75 6.75 10.2 10.2	0000	2222	30 45 45	: 1 1 1	1.1.1		2250 2400 3225 3000
## 300.000 78% 77%** 95% 0 80% 8 10119 3 220 2 10,000 645 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		K208W RK208W K258W	240,000 240,000 300,000	70% 70% 78%	73%:		000	710 735 836		(2)10		220 220 220	200	8000 8000 10,000	725 725 625		m m w	13.3	000	222	388	111	111		3300 3600 3750
19,000   123½   77½   48½   0   590   8   [1]  9   3   220   2   10,000   645   1   1   1   1   1   1   1   1   1		DRK28W RK20BW RK20BW RK20BW RK20BW RK50BW RK50BW DRK40BW RK50BW DRK60BW DRK60BW DRK60BW SRK-10 SRK-15 SRK-1	300, 000 360, 000 360, 000 480, 000 480, 000 720, 000 120, 000 180, 000 240, 000 240, 000 300, 000	78 ½ 58 6 ½ 68 6 ½ 68 6 ½ 68 6 ½ 68 6 ½ 68 6 ½ 68 6 ½ 68 6 ½ 68 6 ½ 68 6 ½ 68 6 ½ 68 6 ½ 68 6 ½ 68 6 6 ½ 68 6 6 ½ 68 6 6 ½ 68 6 6 6 6	7716 *** 8416 *** 8416 *** 9316 *** 10516 *** 10516 *** 10416 ** 10416 *** 1		000000000000000000000000000000000000000	735 890 890 770 710 1070 836 580 580 735 1750 1750 735		(1)10 (2)15 (2)15 (2)26 (2)26 (2)36 (2)36 (2)36 (2)36 (2)36 (2)36 (2)36 (3)46 (3)46 (3)46 (3)46 (3)46 (3)46 (3)46 (3)46 (3)46 (3)46 (3)46 (3)46 (3)46 (3)46 (4)46	~~~~~~~~~~	220 220 220 220 220 220 220 220 220 220	~~~~~~~~~~~~~	10,000 12,000 12,000 16,000 20,000 24,000 24,000 4000 4000 6000 6000 8000 10,000	625 640 840 550 550 465 475 475 765 765 690 690 625		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16.5 18.75 18.75 25.0 25.0 25.0 25.0 40.05 6.75 6.75 10.2 13.3	*********	222222222222222	75 990 900 900 900 900 900 900 900 900 90				4000 4850 5300 5800 6200 7700 7700 7700 7700 7700 7700 77
1,50G   120,000   42½   89½   26½   54   1750   C   10   3   208/220   2   4000   975   1     1,50G   120,000   73   105½   31½   31½   34   1750   C   10   7½   3   208/220   2   4000   975   1     1,50G   240,000   73   106½   344   1750   C   (2)   7½   3   208/220   2   4000   805   1     2,50G   240,000   73   106½   344   1750   C   (2)   7½   34   1750   C   (2)   7½   34   1750   C   (3)   1     2,50G   24   25   24   14   1750   C   (2)   2   208   230   1   1200   Ver.   1     3,50G   24   28   24   14   1750   C   7½   230   1   1200   Ver.   1     3,50G   24   28   24   14   1750   C   7½   230   2   4000   2     3,50G   28   94   28   24   1750   C   10   2   230   2   4000   2     3,50G   28   94   28   24   1750   C   15   230   2   4000   2     3,50G   28   94   28   24   1750   C   15   230   2   4000   2     3,50G   28   94   28   24   1750   C   15   230   2   4000   2     3,50G   28   94   1750   C   15   230   2   4000   2     3,50G   29   94   1750   C   15   230   2   4000   2     3,50G   24   1750   25   24   1750   C   15   230   2   4000   2     3,50G   24   1750   25   24   1750   C   15   230   2   4000   2     3,50G   24   1750   25   25   25   25   25   25   25		**DBK.25 **RK.30 **DBK.30 **DBK.40 **DBK.40 **DBK.40 **DBK.40 **DBK.40 **DBK.60 **PBK.60 **T730G	300,000 360,000 360,000 480,000 600,000 600,000 720,000 36,000 60,000	125/ <sub>2</sub> 137/ <sub>2</sub> 137/ <sub>2</sub> 146/ <sub>4</sub> 146/ <sub>5</sub> 187/ <sub>2</sub> 218 218 31/ <sub>2</sub> 31/ <sub>2</sub>	77 % 84 % 84 % 84 % 93 % 93 % 93 % 93 % 93 % 93 % 93 % 9	48 ½ 53 ½ 60 ½ 60 ½ 60 ½ 60 ½ 60 ½ 60 ½ 60 ½ 6	000000001	735 890 890 770 710 1070 836 650 1750		(1) 10 (1) 13 (2) 15 (2) 26 (2) 25 (2) 25 (2) 30 (2) 30 (2) 30 (2) 30 (2) 30 (2) 30 (2) 30 (2) 30 (3) 30 (3) 40 (4) 40 (5) 40 (6) 40 (6		220 220 220 220 220 220 220 220 220 220	~~~~~~~	10,000 12,000 12,000 16,000 20,000 20,000 24,000 24,000 26,000 24,000	625 640 640 550 550 465 475 475 805		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16.5 18.75 25.0 25.0 25.0 31.75 40.05 40.05	0000000044	2222222222	880 120 130 130 130 130 130 130 130 130 130 13	1111111111-8-	11111111100		\$650 6750 7300 7850 9100 10,600 12,000 13,000
uffman Air Canditioning Co., 4505 Olive St., St. Louis, Mo. — "Kouffman"           36,000         24         82         24         H         1750         T         5         230         1         1200         Ver.         1           6,000         28         84         28         H         1750         C         7½         230         2         3000         1           12,000         28         94         28         5H         1750         C         7½         230         2         4000         1           18,000         28         99         29         5H         1750         C         15         230         2         4000         1           24,000         29         108         32         5H         1750         C         20         2         6000         1           24,000         29         108         32         5H         1750         C         20         2         6000         1	KKK K.	775G 7100G 7150G 7200G Self-contained		424 45	897% 931% 1017% 1061/2 oners equip	26 1/4 26 1/4 31 1/6 36 1/4 sped with	SH S	1750 1750 1750 1750 evaperativ		(2) 7% (2) 7% (2)10		208/220 208/220 208/220 208/220 supplied.	2 2 2 Ali above	3000 4000 6000 mils are	975 920 805 850 elf-contain		11/2 2 3 3 station	6.0 8.0 10.7 14.5 air conditione	444 4	22 22 22 22 22 equipped with	17 19 34 40 water-coo	64463	condensers.	20x25x1 16x25x1 16x25x1 16x25x1	1000 1308 2050 2370
	₹ 600 × 000	# a a a a a a a a a a a a a a a a a a a			4505 82 84 99 99 99	live St. 24 28 28 28 29 32	* = = # # # # #		10000	Kouffman 3 5 7% 10 10 15	111111	230 230 230 230 230 230		1200 2000 3000 4000 8000	,		22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4.4.8.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	44400	22222	9 1 1 5 20 30 75 75		23,72	14½x24% 17½x35% 23½x19½kx1 23½x33%x1 26½x33%x1 38x33%x1	950 1050 1450 1800 2150 3400

WATER COOLED PACKAGED AIR CONDITIONERS (Continued)

Corp. Schelling   Party West Corp. Organized   Party   Corp. Schelling   Party   Corp. Schelling   Party   Corp. Schelling   Party	Model No.	Cooling Copacity BTUH (ASRE)	Cabi	Cabinet Size (In.) Including Plenum	In.)	Typ	Compresser Type RPM	er Make	1	Compresser	er Mater Veltage	ě	Slower	RPM	Blowns No.	Moter	Foce Area No. (Sq. Fr.) Rows	No.	Refrig.		No. Ty	Air Filter Type Size (In.)	258
March   Marc	York Corp.,		-	-Warne			intley Rd	>	12	Yorkain	Special,	", ysst	1200	******	-	%	3.82	-	22	4		*** increases	450
Column   C	354	***************************************	35	82	23	I	1725	0	m	7	230/220/ 208/440/550	-	1200	625	-	%	3.77	n	22	4	4		079
The control of the	554	000000000000000000000000000000000000000	42	82 1/2	2	I	1725	0	w	7	230/220/	-	2000	625	-	%	5.3	•		8 %	*		1 830
The color of the	752	080 11 19000	99	931/2	27	I	1725	0	3/19	•	220/208/440/550	-	3000	550	-	-	8.7	0			*		1 990
At Pire High Explanation Control Explanation C	1003	000000000000000000000000000000000000000	71	7/196	26	I	1725	0		•	220/208/440/550	-	4000	652		1 1/5	10.94	0		9.68	*		1 1600
All Div. Illiese Explessing Co. inc., 10608 State Fe, Serie Gree, Cells. —""">	1503	00000111000	763%	7/200	291/4	I	1725	0	(2) 71/5	•	220/208/440/550		0009	675	-	04	13.0	4		64	*		1 2100
March   Marc	2501 *No Plenum.	*******	%61	103%	42	I	1725	0	(3) 7%	0	220/208/440/550		0000	080	1		20	*		~			2550
1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	Cond-Air D	Elliott	Engineer	ing Co.,	Inc.,		Sante F.	e, South	Gate,	allé.	"Cond-Air"			1									
	EC 30V	35,200	34	52	20	I:	1725	<b>j</b> j	67 4	7	220			009		8:		4					88
19.500   1	EC 75V	84.660	2 88	18	25	E 35	1725	- U	7%		220/440			573		53	9.0	• •					140
Case California expectations conductors and constraints and co	EC 100V	119,850	88	12	25	SH	1725	U	01		220/440	-		620	-	-	40	4					220
All used in large decreases and constraint and constraints and	EC 200H	239,700	121	76	19%	S 5	1725	UU	(2) 7%		20/440		8000	595		22	1 9						3200
Composition of the composition o	NOTE: All unit			live conden	8		103	idensing.	Deal	empresse	models stendard		capacity	duction.									
1,000   1,00		Co	rmingd	ile, N. J	-	J-AC																	
Street   17,000   57   57   57   57   57   57   57	J.ACI.30*	36,000	35 %	82	25 1/2	SH	1750	v	n ×n	n n	208/220		2000	089		22	17	4 4		- 6			
State   12,000   10   10   10   10   10   10   10	J.ACI -75**	93,000	15	82	30%	H5 75	1750	UL		00	208/220	04 0	3000	720	e4 F	2	6.7	-					, me 9
### Corp.   187,000 S. Geddes St., Stream controlled in 2 pions.		2001	3 1	3				) 1		, ,	200					2.2		,					
## Corp.   No.   Conditioning Co.,   Inc.,   Harrings,   Nob.   — "Hostings"   1   1   230   1   1200   935   1   15   235   23   23   24   1   15   235   25   25   25   25   25   25	Also available	182,000 in 1 or 2 phas	2	90 Iso availab	31% le in 2 p	SH.	1750	U	(2) 71/2	n	208/220	2	9009	240	~	2	13.5	*)			e e		3100
3-4 tens	Hastings A				asting		1	ngs															
Sylvan State   Sylv	0K-15	3-4 tons	36	2:	24	X 3	00000000	p= p	1%		230		1200	935		42	2.25						35
The both direct expansion and variety collection and variety class of the collection of variety collection and variety is collected as the collection and variety is collected as the collection and variety is collected as the collection and variety coll	KP-30	5-7 tens	48	200	27	T	***************************************	- 9-	3 2	7	230		2000	760	· -	2.2	4.0						3 5
Pr Corp., 300 S. Geddes St., Syracuse, N. Y. — "Carrier"  126,200 82 62 64 274 200 N H 1750 O 10 3 208/220/440/350 1 3500 770 1 2 11.00 3 22 14% 2 1 164.23ail 165.00 82 64, 10 43 64 10 10 10 10 10 10 10 10 10 10 10 10 10	XK-50 here units have	71/2-11	51 pension on		29 Is. and a		aned for us	- 8	.00	m 0			3500 4 Wel		-	17/1	6.3						9.5
191,750   St. 5   Stratester, N. T. — "Centrer"   194,550   1   1   1   1   1   1   1   1   1									1		1												
93,600 48 77 30% H 1750 O 17% 3 208/220/440/550 1 350 1 1 775 3 22 14% 2 1 16.25 1 1 16.25 1 1 16.25 1 1 16.25 1 1 16.25 1 1 16.25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Carrier Co.		Seddes	St., Syra	cuse, l		Car	rier													2		
191,750   82   83   30%   H   1750   C   3   1—3   208/200/440/550   1   1450   7750   1   3   16.90   3   22   29   4   1   1   1   1   1   1   1   1   1	50K8 50K12	93,600	82	53	30 1/6	II	1750	00	10	00	208/220/440/550 208/220/440/550		3500	750		- 24	7.75	00					1120
38,700 36 52 21 H 1750 O 3 1 I—3 230/208/440/550 1 1450 756 1 1/4 4.60 2 2 22 64/6 2 1 1 164/2011  244,400 85% 83% 26% H 1750 O (2110 3 208/220/440/550 1 1200 850 1 1/4 6.60 2 C-500 9% 1 1 164/201  244,400 85% 83% 26% H 1750 O (2110 3 208/220/440/550 2 9150 760 1 3 13.9 4 22 38 8 T 164/202  38,400 25 813/4 27% 1 1750 T 5 1 200  43 64,00 42 93% 27% 1 1750 T 5 1 1 1200  44 6.60 2 C-500 9/4 1 T 164/202  45,400 42 93% 27% 1 1750 T 5 1 1 164/20  45,400 42 93% 27% 1 1750 T 5 1 1 164/20  45,400 42 93% 27% 5H 1750 C 7% 3 220 2 3000 870 1 1/4 8.0 4 22 13 1 T 164/20  190,200 78 98% 27% 5H 1750 C (2) 7/4 3 220 2 4000 780 1 1/4 12.0 4 22 13 1 T 164/20  190,200 78 107% 31% 5H 1750 C (2) 7/4 3 220 3 6000 780 1 1/4 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OFTA	101 740	83		3014	3	1750	c	(2) 7%		308/330/440/550		2300	770			14 90	•					306
64,100 43 64 22 H 1750 O 5 1 1-3 230/208/440/350 1 240,0 815 H 5,6 6.6 2 C-500 9% 1 1 1 1062351  244,400 85% 83% 26% H 1750 O (2)10 3 208/220/440/350 2 9150 760 H 3 13.9 4 22 C-500 9% 1 1 1062051  344,400 85% 83% 26% H 1750 C (2)10 3 208/220/440/350 2 9150 760 H 3 13.9 4 22 R 12 R 1642051  35,400 38 84% 27% 8H 1750 C 7% 3 1 200 1 1200 690 H 1% 4.0 4 22 R 10 2 R 1042051  35,400 42 93% 27% 8H 1750 C 7% 3 220 2 3000 870 H 1% 6.0 4 22 R 13 R 1 1042051  106,200 78 98% 28% 88% 28% 8H 1750 C (2)7% 3 220 3 6000 780 H 1% 12.0 4 22 R 13 R 1 1 1 1042051  233,600 78 107% 31% SH 1750 C (2)7% 3 220 3 8000 642 H 2 R 12	1084	38,700	36	52	21	Ŧ	1750	0	3	7	230/208/440/550		1450	756	-	2	4.60	~		1/2			310
244,400 85% 83% 83% 26% H 1750 C (2110 3 208/220/440/350 2 9150 760 1 3 13.9 4 22 38 8 T 16±20±2  1 Mfg. Ca., 7600 S. Kedzie, Chicago, III. — "Rheem"  1 8,040 25 81% 27% H 1750 C 7% 3 1 220 1 1200 650 1 1% 2.4 4 22 7 1 1 16±25  126,800 54 98% 27% 5H 1750 C 7% 3 220 2 3000 870 1 1% 6.0 4 22 13 1 1 16±25  190,200 78 98% 28% 81% 5H 1750 C (2) 7% 3 220 2 4000 725 1 1% 8.0 4 22 15 3 7 16±25  190,200 78 107% 33% SH 1750 C (2) 7% 3 220 3 8000 642 1 2, 10, 10, 10, 12, 10, 12, 10, 12, 10, 12, 10, 12, 10, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12	50R6	64,100	27	2	22	I	1750	0	45	7	230/208/440/550	-	2400	815	-	3/2	6.60	2					710
1 Mfg. Ce., 7600 S. Kedzile, Chizago, III.         "Rheem"         38,040         2.5         1 kd. 2.4         4 22         7 1         1 16425           38,040         2.5         81%         23%         1 1 200         560         1 1 4         2.4         4 22         7 1         1 16425           63,400         38         84%         27%         1 1750         C         7%         3         220         2         3000         870         1 1         4         0.4         4         22         1 3         1 1         16425           95,100         42         29%         27%         54         1750         C         7%         3         220         2         4000         725         1 1         4         22         13         1 1         16425           190,200         78         98%         28%         54         1750         C         (2) 7%         3         200         760         1 1%         12.0         4         22         15         2         1 20425           190,200         78         10         1%         3         220         2         4000         760         1 1%         1         2         15*** <td< td=""><td>41524</td><td>244,400</td><td>85%</td><td>83%</td><td>261/6</td><td>I</td><td>1750</td><td>0</td><td>(2)10</td><td>67</td><td>208/220/440/550</td><td>2</td><td>9150</td><td>260</td><td>-</td><td>69</td><td>13.9</td><td>4</td><td></td><td></td><td></td><td></td><td>1985</td></td<>	41524	244,400	85%	83%	261/6	I	1750	0	(2)10	67	208/220/440/550	2	9150	260	-	69	13.9	4					1985
38,040 25 81% 27% H 1750 T 3 1 220 1 1200 560 1 1% 2.4 4 22 7 1 1 1 16425 65,440 38 84% 27% H 1750 C 7 1 3 1 220 1 200 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rheem Mfg.	Co., 7600	5. Kedzie		go, III.	1	theem"																
95,100 42 93% 27% 5H 1750 C 7½ 3 220 2 3000 870 1 34 6.0 4 22 13 1 T 10225 1 1 1 10225 1 1 1 10225 1 1 1 10225 1 1 1 10225 1 1 1 10225 1 1 1 1 10225 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C-3-1*	38,040	25	813/4	231/2	TI	1750		es 49		230		2000	290		22	4.0	••			-2-	16x25 16x20	734
190,200 78 984, 2815 SH 1750 C (2) 715 3 220 3 6000 780 1 115 12.0 4 22 13*** 2 7 20x25 2 7 20x25 2 253,600 78 107% 3315 SH 1750 C (2)10 3 220 3 8000 642 1 2 16.0 4 22 15*** 1 7 20x26 16x26	RC-8-3 RC-10-3	95,100	2.2	%86 %86	271/2	3 3	1750	υu	11/2	66	220	22	3000	870		%_	0.0	44				16x25 16x25	1351
253,600 78 107% 331% SM 1750 C (2)10 3 220 3 8000 642 1 2 16.0 4 22 15** 1 2020 16x20	RC-15-3	190,200	78	%86	281/2	SH	1750	U	(2) 71/8	63	220	6	9009	780		11/2	12.0	4			~	16×25 20×25	2095
** Each ciruit.	RC-20-3	253,600	78	1073/4	331/2	SH	1750	U	(2)10	6	220	en	8000	642	-	2	16.0	*			15.	16x25 20x20	2978
	Also available	in 3 phase.	** Each cl	reuit.																		16×20	

(Continued)
CONDITIONERS
AIR
PACKAGED
COOLED
WATER

Model	Capacity STUH		Cabinet Size (In.) Including Plenum		,	Compressor			ompressor	Compressor Motor	1	Blower	200	Blower Motor		Evap. Co Face Area	Coil No.	Refrig.	2		Air Filter Tyme Size (In.)	W.	3:2
Westinghouse Electric	Electric	Corp.	Air Conditioning Div., P. O.	itioning	Div.	P. O. B	x 510,	1 5	Va	"Westinghouse					1		1						
SU-403	36,000	34%	75%	25	HS	1750	0	6	1.2.3	230/220 208/440/550 230/220		1200	Var.	-	3/2	2.9	20	22 3		U	20x25x1		9
SU-603	900'09	417/8	82%	27	SH	1750	0	us	1.2.3	208/440/550		2000	Var.	-	3/6	4.0	6	12 11	4 4		16x20x		8
SU-803A	000'06	521/4	16	281/2	¥3	1750	0	71/2	5-7	220/208/440/550	-	3000	Var.	-	_	6.0	6	22 11	~		12x25x1 20x30x2		8
MU-113	120,000	623/4	%06	321/6	HS 3	1750	00	(2) \$	77	220/208/440/550	20	4000	Var.		11/2	8.9	4 4	12 22	- 67	UU	25x30x2	1510	00
MU-163	264,000	92	74	42 42	3	1750	00	20	2	220/208/440/550		8250	Var.	-	100	16.8	4		1		-		25
10.108	318,000	92	74	42	3 3	1750	00	30	~ ~	220/208/440/550	20	12,000	Var.		n in	24.0	4 4		1 1	<b>∪</b> ⊢		400	20
10.130	492,000	128	42	6 4	3	1750	0	40	2	220/208/440/550		16,000	Var.	-	21/2	32.0	4		t	-		475	2 1
August G. Bo	Barkow Mfa.	Co.	Inc. 2230	2230 South	43rd S	St. Milw	vaukee.	Wis "	"Weatherwise"	rwise"													
	000		67			1725		64	-	230	-	800	650	-	1/4	2.66	4				16x25x1		0
CK3.W	36,000	3 5	62	21	x	1725	- ;-	6	7	230/208/220	-	1200	650	-	1%	2.66	4		-	U	16x25x		2
CK5.W CK75.W	90,000	38% 52%	,51/2	231/4	SH SH	1740	υu	71/2	7	230/208/220	- 24	3000	618		22	5.62	4 4	12 18			15x20x1	1015	200
Farquhar Co.,	. 230 Owe	230 Owens Ave.,	Wilmington,	gton, G	Ohio —	"FarQuar"	ar,													,	100.00		
AF-2	24,000	26	51	33	±S	1750	U	2	-	230	-	800	830	1	7/4	2.25	29	12 4			20×20×1		1
AF-3	36,000	28	54	33	SH	1750	U	89	-	230	-	1200	850		%	2.25	4	12 4		p= p=	20x20x1	-	100
AF-5	900'09	32	39	42	SH	1750	U	en i	~ 0	230		2000	720		2%	4.0	4 4	22 5			20x25x1		1
AV-7.5	120,000	42	200	36	3 3	1750	υυ	10	n n	220	- 8	2000	720	- 64	1/2	9 60	. 4		6 10		16x25x1		: :
																							1
Worthington	Corp., Ampere Station,	apere St	ation, E	East Orange,		N N	Worth.	"Worthington"		208/220/230													
SC9-40	37,065	371/4	827/8	21%	SH	1750	0	e	1.2.3	380/440/550	-	1200	650		%	3.84	es	22 9	64	-	16x20x1		4
99-608	62,500	481/4	90	21%	SH	1750	0	49	1-2-3	380/440/550	-	2000	840	-	1/3	5.22	6	22 12	23	-	20×20×1		90
\$69-80	97,500	581/4	881/2	2311/16	SH	1750	0	71/2	2-3	380/440/550	2	3000	850	2	3/4	8.38	e	22 14	m	<b>!</b>	16x25x1 (4)16x20x		0
SC9-1040	124,000	821/4	98%	311/6	SH	1750	0	(2)10	7	380/440/550	2	4000	800	2	11/2	13.0	e	22 26	60	-	(4)20x20x1 (4)16x20x1	2214	4
SC9-1550 RWR-200(HB)*	185,500	821/s 551%	98%	31%	S S	1750	00	(2)15	7_	380/440/550	- 2	0009	250	- 2	3,2	13.0	40	77 28	9 71	-0	(4)20×20×1 177/8×151/4×7/8	cl 2760 x7/s 587	20
RWR-400(HB)*	36,100	5579/6	25	41 1/2	HS	1750	0	m	1.2.3	380/440/550	-	1200	750		1/3	3.44	en	22 8	2	O	17%x151/4x7/8	x7/8 612	2
RWR-600(HB)*	900'09	60%	28	411/2	SH	1750	0	50	1-2-3	380/440/550	1	2000	650	-	1/2	4.09	4	22 9	2	U	17%x15%x7%	x% 710	0
RWR-800(HB)*	91,400	1777/8	361/2	491/2	SH	1750	0	21/2	7	380/440/550	-	3000	700	-	3/4	6.25	4	11 22	11.5 2	U	223/4×223/4×7/8	x7/s 978	00
Celling Suspended.	ed.						1																1
Iron Fireman Mfg., Co.,	Mfg., Co.	3170	W. 106th St.,	St.,	evela	Cleveland, Ohio	Ilron	i															
C.201*	24,088	24%	38		rr	-	<b>⊢</b> ⊢	0 m		230	1 1	**********	11			1 1	1 1			1 1	esecutations.		
C-501*	65,800	333%	7		I:	**********		10 0		230	;	1785	******		%	1	1			1 1			1 1
HFC.201*	24,088	19	623/4		EE	***************************************	<b>-</b>  -	N CO		230	1 1	1785			222								1
HFC-501*	65,800	23%	41%	20%	II	Received to	j= j=	10 64		230	: :	2300		1 1	2	* **		122		: :			
MDC-301* 36,04	36,040	233/4 .* Langth.	413/4		I	***************************************	-	m	-	230	1	***************************************					t						

24,088 36,040 24,088 36,040 65,800 24,088 36,040 e in 3 phase.

C.201\*
C.301\*
C.501\*
C.501\*
HFC.201\*
HFC.301\*
HFC.301\*
HDC.301\*
\*Alse avgiloble it

WATER COOLED PACKAGED AIR CONDITIONERS (Continued)

## ## ## ## ## ## ## ## ## ## ## ## ##	Model	BTUH	Includ	Including Plenum	7.0	3	Compressor			Compressor M	Moter		Blower		Blower h	Motor Fa	Face Area	_	Refrig.			Air Filher	We.
1,000   274, 97   274, 9	American-51	andard Co		ondition	a a	11 4	ΊŒ	51.	%	N. Y.	- "Americo	In-Stand	ard"	W. W.	É	٦.	12.00	-				Serie iii.	1
March   C.   Francisco   C.   March	HCA-2F*	25,680		57	28%		1725	-	2	_	230	-	800	935	800	3/2	2.11			176	-	20x25x1	
Wight   Wigh	TO STATE	38,020	27 %	37	28%		1725	- **	m u		230		1200	900		5:	2.53			*		20x25x1	
High Cor.   Formster   Lange	CCA-2*	25.680	2614	82 %	2174		725	-	9 64		230		800	240	-	2 2	2.11			116.	-	18x21x1	
Wigh Co., Emerger Rd.,   Prop.   Other Prop.   Wigh Co.,   Commercial A.   Prop.   Other Prop.   Wigh Co.,   Commercial A.   Prop.   Other Prop.   Wigh Co.,   Commercial A.   Prop.   Other Prop.	CCA.3.	38,020	26%	82	217/8		725	-	179	_	230	-	1200	850	-	2	2.53			140	-	18x21x1	
High Co., Tenniport Rd.   Hyper Olive   Hyper Co.	. Also available	.5	43%	60	23%		725	:	wy	_	230	-	2000	770	-	%	5.93			*	pa-	16x37x1	
Secretar Co., Commercial & Marchitelian Div. 5 Lavrate St. Meanfald, H. J. — "Garant Electric"   1900 900 14   14.5   12.5   1	Mfg.	o. Evensp		Ι.	1	"Bard"																	
Section   24,000   24   24   24   24   24   24   24	•	24.760			7	I	***************************************	-	24		230	-	800	875		5%	1.86					16x25x1	
	83081	38,650	28%	561/2	7/161	x		<b>j</b> e (			230	-	1200	920	gan ,	2	2.69					16x25x1	
## Section Compared to Machaning Div. 5 Lowered St. Hisamfeld, N. J. —"General Electric"   1,000   1,0	85081	65,800	36	67	251%	=	•	-	40	7	230	-	2000	760	-	1/8	4.2					16x25x1	
\$1,000   34   \$254,   \$214,   \$179   \$0   \$3   \$1   \$170   \$0   \$3   \$1   \$170   \$17	2		Commercia		_	-	ndivioning	Div.	Lawre		-		- "Gene		etric"								
180,000 554 584 587 587	FD30G FD50G	36,000	12		21%			00	m w	1 :	********	- 14	1200	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		22	0.0			2	<b>j j</b>	16×20×1 20×25×1	
180,000   25%	COTEC	000 000	3.5		9937				217			•	3000									(2)16×20×	
C   100,000   77%   94%   28%   H   7350   O   1315   S   6000   S   S   7   84%   S   S   S   S   S   S   S   S   S	FD100G	120,000			2874				10		*******	4 64	4000	********			10.3		-		-	25x16x1	
### Section 77 94% 44 H 3450 O 10.15	FD150G	180,000			287%				15		n e n e n e n e n e n e n e n e n e n e	00	9000	0 0 0 0			15.4			9 8		25x16x1	1550
Section 57 7 84% 454 11 759 0 0 (21) 3 1 10,000 1 7 10,000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		200,000			2 :						De a ci à o	4 (	2000	:			0			9	- 1	(4)16x25x	
Second 34 38%	FDW250C	300,000			43				0, 15	2	* * * * * * * * * * * * * * * * * * * *	P4 1	10,000	***			24.8			12	jes je	(8)16x20x	2340
## Safe ## Safe ## 1750 O 5 5   2000	FCW30C	36,000			561/2					1 1	***************************************	-	1200		-		3.2			14	900	16x20x1	
## Redio and Phenegraph Corps. 46 Oliver Str., Newark, N. J. — "Guilet Keol"  ## Redio and Phenegraph Corps. 46 Oliver Str., Newark, N. J. — "Guilet Keol"  ## Redio and Phenegraph Corps. 46 Oliver Str., Newark, N. J. — "Guilet Keol"  ## Redio 20% 544 20 H 1725 T	CW50C	90,000			561/2			0	W)	2	9 # 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	2000	041100	-		5.3			2	<b>=</b>	20x25x1	
## State of the property of Corps, 46 Oliver St., Newart, N. J. — "Quiet Koel"  ## State of the property of th	CW75C	000'06	55		561/2			0	21/2	2	******	-	3000	*		**	9.9			6	-	(2)16x25x 20x25x1	_
36,000 29% 54 20 H 1725 T 2 I 220 I 1800 600 I % 33 2 22 3.5 I T T 3 2 I 220 I 1800 600 I % 33 2 22 22 3.5 I T 3 2,000 29% 54 20 H 1725 T 2 I 220 I 1800 1725 I % 33 2 22 22 2.5 I T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and Ph		۳,		St.,	Newark,	N. L.	3														
1,000   25%   24   20   H   1723   T   2   1   230   H   100   1723   H   230   H	C2A2*	0			20		725	-	2	-	230	-	800	900	-	1/4	3.3			5 1	j=	16x25x1	
25,500   25%   54   20   11755   7   2   1   230   1180   7725   1%   35   2   2   2   2   1   1   1   1   1   1	C2R2*	36,500			20		725		<b>7</b> 6		230		980	1726		22	2.0			0 4	je- ga	16x25x1	
### 124,000 29% 54 20 H 1725 T 2 1 220 1 1800 1725 I % 3.3 2 22 3.5 I T T S S,500 29% 54 20 H 1725 T 3 I 200 I 1725 I % 3.3 3 2 2 3.0 I T T S S,500 35% 59% 59% 50% 50 525 B 3 1-2-3 220/220/208 I 1200 640 I % 2.7 4 12 11 C C S S S S S S S S S S S S S S S S	C382*	36,500			20		725	-	, es	_	230	-	1120	1725	-	2.2	3.3			0	-	20x25x1	
March   Marc	CAZ	24,000			22		725		2 0		230		800	1725		23	3.3			50	- +	20x25x1	
## Bush, Inc., 179 South St., West Hartford, Conn.  ## Bush, Inc., 179 South St., West Hartford, Conn.  ## Bush, 100, 15%, 25%, 514 1750 B 3 1-2-3 220/220/208 1 1200 660 1 ½, 2.7 4 12 11 1 C C C C C C C C C C C C C C C C	Also available is	n 3 phase.			2				,		720	-	2	67/1	-	2	9:5					ACACOA	
36,000   15%   78%   25%   584   1750   8   5   1-2-3   220//220/2020   1   1200   680   1   19   2.7   4   12   11   1   1   1   1   1   1   1	Junham-Bush		South St.,	West H	lartfore	f. Conn																	
Furnace Co., 1300 514 6 254 6 6 25 6 74 12 12 20020 6 650 1 1/10 12 10 10 10 10 10 10 10 10 10 10 10 10 10	IAC-30-1	36,000	351/4	78%	25%		750				220/220/208	-	1200	680	-	1/2	2.7			-		143/4×253/4×	
Furnace Co., 1300 S. Washington, Peoria, III. — "Meyer"  23,770 30 71 20 H	AC-30-1	03,000					825				220/220/208	- 0	3000	089	- 0	8%	4.4					18 1/2 x 34 3/4 x	1 1342
Furnace Ce., 1300 S. Washington, Peoria, III. — "Meyer"  25,770 30 71 20 H 71 2 1—3 230 10 800 W. 4 4 22 21% C  45,450 30 71 20 H 71 2 1—3 230 10 100 0 W. 4 4 22 21% C  45,000 23% 77% 26% H 725 C 3 1 230 1 1200 890 1 % 2.43 4 22 5% C  40,000 42% 85% 29% SH 1725 C 7% 3 1 230 1 1200 890 1 % 4.94 2 12 10 2 C  40,000 42% 85% 29% SH 1725 C 7% 3 1 230 1 1200 890 1 % 5.54 2 12 10 2 C  40,000 42% 85% 29% SH 1725 C 7% 3 1 230 1 1000 War. 1 % 5.54 2 12 10 2 C  40,000 42% 85% 29% SH 1725 C 7% 3 1 230 1 1000 War. 1 % 5.54 2 12 10 2 C  40,000 42% 85% 29% SH 1725 C 7% 3 1 230 1 1000 War. 1 % 2.9 4 22 21% 1 C  24,760 25 57% 21% H 1725 T 2 1 2 20 1 2000 Var. 1 % 2.9 4 22 21% 1 C  45,800 35 57% 21% H 1725 T 3 1 230 1 1000 Var. 1 % 2.9 4 22 21% 1 C  45,800 35 57% 21% H 1725 T 3 1 230 1 1200 Var. 1 % 2.9 4 22 21% 1 C  45,800 35 70% 21% H 1725 T 5 1 230 1 1200 Var. 1 % 2.9 4 22 21% 1 C  45,800 35 70% 21% H 1725 T 5 1 230 1 1200 Var. 1 % 2.9 4 22 21% 1 C  45,800 35 70% 21% H 1725 T 5 1 230 1 1200 Var. 1 % 2.9 4 22 21% 1 C  45,800 35 70% 21% H 1725 T 5 1 2 20 1 2000 Var. 1 % 2.9 4 22 21% 1 C  45,800 35 70% 21% H 1725 T 5 1 2 20 1 2000 Var. 1 % 2.9 4 22 21% 1 C  45,800 35 70% 21% H 1725 T 5 1 2 20 1 2000 Var. 1 % 2.9 4 22 21% 2 C	IAC-100-1	121,000					825				220/208	10	4000	989	2 1	1/2	0.6			-		291/4×45×1	
25,770 30 71 20 H 12 2 1—3 230 10 800 1/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 21/4 2 2 2 2 21/4 2 2 2	deyer Furna	ů.	vi	hington,		, III	- "Meye	100															
65,000 3815 73 22 H	5.5.2	25,770			02	: =:		-		7	230	010	800	******		1/4	*****					***************************************	
## Solution   1117 E. Commerce St., San Antonio, Texas — "Floating Air"  36,000   421%   831%   261%   1725   T   3   1   1200   890   1   1%   2.43   4   22   6   1   C    60,000   421%   831%   26	5.5	65,800			22	: :	*****			77	230	120	2000	******	1 1	22.52	*******						
18,000 231%, 771% 261% H 1725 T 3 1 230 1 1200 890 1 1% 2.43 4 22 6 1 C C C C C C C C C C C C C C C C C C	d Friedrich,	Inc., 1117	E. Comme	St.	San	ntonio,		"Float								-							
42,000 42½ 85½ 29½ 5H 1725 C 5 1 230 1 2850 700 1 ½ 4.94 2 12 10 2 C C C C C C C C C C C C C C C C C C	301W*	36,000			613/16	H 17	725 1				230	-	1200	890	_	1/2				-		1x20x25	
Hee, Inc., 20080 James Coursens Highway, Defroif, Mich.           24,760 James Coursens Highway, Defroif, Mich.         230 Tol.         230 Tol.         1 800 Ver.         1 % Tol.         4 22 Tol.         2 Tol.         2 Tol.         4 22 Tol.         2 Tol.         2 Tol.         4 Tol.	.501W*	000,09					725				230	<u>-</u> -	2000	700		1/2				~ ~		1x173/4x23	1005
14e, Inc., 20080 James Coursens Highway, Defroit, Mich.         24,760         25         57½         21½         H         725         T         2         1         230         1         800         Ver.         1         ¼         1.75         4         22         2½%         1         C           38,500         25         57½         21½         H         1725         T         3         1         230         1         100         Ver.         1         ½         2.9         4         22         2½%         1         C         24,760         25         1         200         Ver.         1         ½         4         22         2½%         2         C         24,760         2         4         22         2½%         2         C         24,760         3         7         1         2         1         200         Ver.         1         ½         1         2         2         1         2         1         2         2         3         4         2         2         3         4         2         2         3         4         2         2         3         4         2         2         2         4         2	available	63									240		2007	3		*				•		14	
24,500 25 57% 21% H 1725 T 2 1 230 1 300 Ver. 1 % 2.9 4 22 27% 1 C 65,800 25 57% 21% H 1725 T 2 1 230 1 1200 Ver. 1 % 2.9 4 22 27% 1 C 85,800 25 57% 21% H 1725 T 2 1 230 1 2000 Ver. 1 % 4.2 4 22 27% 1 C 85,800 25 70% 21% H 1725 T 2 1 220 1 1200 Ver. 1 % 2.9 4 22 27% 1 C 88,800 35 70% 21% H 1725 T 5 1 220 1 2000 Ver. 1 % 2.9 4 22 27% 1 C 65,800 35 70% 25 H 1725 T 5 1 220 1 2000 Ver. 1 % 4.2 4 22 27 27% 1 C		20080			ghway.	Detr					400	,	90	į		2						30.30.1	
95,800 25 6517 17 1725 T 5 1 230 1 2000 Var. 1 17 4.2 4 22 574 2 C 24,760 25 7014 2174 H 1725 T 2 1 230 1 1200 Var. 1 17 4.2 4 22 214, 1 C 38,800 35 7014 2174 H 1725 T 5 1 230 1 1200 Var. 1 17 4.2 4 22 214, 1 C 65,800 35 7014 25 T 5 1 230 1 2000 Var. 1 17 4.2 4 22 5.4 2 C 65,800 35 7014 25 T 5 1 230 1 2000 Var. 1 17 4.2 4 22 5.4 2 C	F2W E3W*	38,760			11/2		25		P4 #		230	- ~	1200	Var.		2 1					, (	20x20x1	385
24,760 25 70% 21% H 1725 T 2 1 220 1 800 Var. 1 1% 1,75 4 22 21% 1 C 38,650 25 70% 21% H 1725 T 5 1 230 1 200 Var. 1 1% 4.2 4 22 24% 1 C 65,800 35 79% 25 H 1725 T 5 1 230 1 2000 Var. 1 1% 4.2 4 22 5.% 2 C	F5W*	65,800			15		725		3 49		230	-	2000	Var.		2.5					U	16x25x1	
38,300 35 791,4 25 1 1725 T 5 1 230 1 2000 Ver. 1 1/7 4.2 4 22 5/4 2 C	SC2W	24,760			111/2		725 T		21		230		800	Var.		3/4					U	20×20×1	
	SCSW*	38,050			17/1		7.25		-		730	-	E ATURA	-		4							

## WATER COOLED PACKAGED AIR CONDITIONERS (Continued)

Model No.	Capacity BTUH (ASRE)	3-	Cabinet Size (In.) Including Plenum	In.) num D	Type	Compresser e RPM	ser Make	_	HP Com	Compressor Motor Phase	eter Voltage	No.	Blower	RPM	_	Blower Motor No. HP	Face Area No (Sq. Ft.) Rey	Coil No. Rows	Refri	Refrig.	é	Air Fills Type	Air Filter Type Size (In.)	W.C.
Majestic Co., Inc., Erie St., Huntington,	3., Inc., Erie	. St.,	Huntingto	n, Ind.	1	"Majestic"	6 44																	
UW2-1	24.000	22	621/4	22	I		1		2	7	220	-	800		1	3/4		4	22	21/4		<b>j</b> =		33
UW3-1	36,000	26	683/4	26	I		-		8	7	220		1200			1/2		4	22	33%		-	***************************************	4.2
UW5-1	90,000	291/2		291/2	I		-		5	7	220	1	2000	*******		1/2		4	22	5%		Jun	***************************************	52
DW2-1	24,000	22		22	Ξ		-		2	7	220	1	800	-		1/4		4	22	21/4	:	-		33
DW3-1	36.000	26		26	I		_		6	7	220	,	1200	*******		1/3		4	22	33%		-	***************************************	42
DW5-1	90009	291/2		291/2	I		-		2	7	220		2000			1/2		4	22	5%		-		52
HW2-1	24.000	22		22	I		ju.		2	7	220	-	800			1/4		4	22	21/4		-		3.5
HW3-1	36.000	26	683/4	26	I	****	-		3	7	220		1200	******		1/2		4	22	33%		-		42
HW5-1	90,000	291/2	711/2	291/2	I		_		20	7	220		2000		;	1/2		4	22	5%	:	-		52
FW2-1	24,000	22	621/4	22	I	********	-		2	7	220		800	******	:	1/4	******	4	22	21/4		<b>_</b>		35
FW3.1	36,000	26	683/4	26	I	***********	<b>j</b>		6	7	220	1	1200	*******	3	1/3	Necessary.	4	22	3%	:	ja-	***************************************	425
FW5-1	000'09	291/2	71 1/2	291/3	I	Sections	-		2	7	220	:	2000	.4384413	705	3/2		4	22	5%	:	jen .	************************	52
Typhoon Air	Yphoon Air Conditioning Co., Div. of Hupp Corp., 505 Carr. 46-5C 37 73%, 24% H 1750	ing Co	5., Div. of 73%	Hupp 24%	Co. T.	1750		oll St., Brooklyn,	oklyn,		7yphoon" 208/220	-	1200		-	2	2.81	4	22	61/2	8	-	(1)16x25x1	615
23 77	40 400	33	2317	2416	3	1760			w		208/220	-	3000			176	1 13	4	90		e		(1)16x25x1	3.0
20 70 71	00,000	200	7317	241/2	619	1750	, (		217		208/220	- 0-	2800			37.	4 47						1120-25-1	016
H-74.60	84 800	43	70 70	23	3	1750	٠ د	(2)	2. 6.		208/220		2800		-	37, 78	7.87		3 6	13.	4 6	. ,	(1)16x25x1	3.6.4
73. AO. H	101 740	43	70	37	596	1750		-	214		208/220	10	3800	******		3/.	7.87	. *	22	2		- 1-	20.25.1	11.4
H-116-SC	125,000	52	70	27	S. H.	1750	0		. 0		208/220	2	4000		-	3/2	7.87	100	22	16			20x25x1	125
H-166-SC	191,000	62	98	1 PT	SH	1750	U	(2)	71/2		208/220	2	9009		_	11/2	13.0	*1	22	33.	1 40		16×20×2	213
H-216-SC	248,000	62	9.5	35	SH	1750	U	(2)	10	-	208/220	2	8000		-	2	13.0	•	22	32.	60	U	16x20x2	240
H-266-SC	310,000	62	9.8	35	SH	1750	v	(3)	(3) 71/2	-	208/220	2	8000		1	3	13.0	00	22	33	00	U	16x20x2	3200
H-316-SC	366,000	84	92	45	SE	1750	U	(3)	01	60	208/220	2	12,000		-	2	21.0	9	22	48.	60	U	20x25x2	347
*2 Circuit. **	492,000 **3 Circuit.	z:	84 92 ***4 Circuit.	4.5	SH	1750	U	(4)	01		208/220	7	12,000	******	-	57	21.0	60	22	9	60	o	20x25x2	456
Perfection Industries,		Div. of	Hupp Corp., 1135 Ivanhoe Rd.,	II. 11	35 IV	anhoe	1	Cleveland,	Ohio	- "Per	"Perfection"													
PKP31C	36,000		701/2	251/4	I	1725	9-		3		230	-	1200	800	-	1/8	2.75	67	22	3.6		v	18x22x1	57
PKPSIC	61,000	371/2	701/2	283/8	I	1725	(Second	***	40 1		230	-	1800	875	1	1/2	4.23	4	22	5.2	-	U	30x21x1	835
PKP83C	97.000	48	80	33	I	1725	-	===	0 17	_	208/220	2	2800	950	1	3/8	6.5	4	22	60	2	U	20x25x1	1050
PH1165C	125,000	52	79	27	SH	1750	0		10		208/220	2	4000		-	3/8	7.87	40	22	16	~	U	20x25x1	125
PH1665C	191,000	62	9.5	35	35	1750	U	(2)	71/2 3		208/220	2	0009		-	11/2	13.0	2	22	22	9	U	16x20x2	213
PH2165C	248,000	62	9.8	35	SH	1750	U	(2)	0		208/220	2	8000		-	2	13.0	9	22	32	80	U	16x20x2	240
PH2665C	310,000	62	44	35	HS	1750	U	(3)	(3) 71/2 3	-	208/220	7	8000	proper	-	0	13.0	60	22	33	00	U	16x20x2	3200
PH316SC	366,000	94	92	45	SH	1750	U	9	0		208/220	2	12,000	******	-	40	21.0	9	22	48	00	U	20x25x2	347
PH4165C	622 000	0									444 7444						0 . 0	•	-		4	4		

## WATER COOLED CONDENSING UNITS

								Evop. C	13			-	Coil & Blower Available	
BTUH Cabinet Size (In.) D Type RPM Make	1011	1011	150° Make	-	Ŧ	Compressor Motor Phase	Motor Veltage	Face Area (Sq. Ft.)	No.	Refrig.	Flow	Flow	Horiz.	Coil & Blower Comb.
Vorthington Corp., Ampere Station, East Orange, N. J "Worthington"	ange, N. J "Worthington"	1. — "Worthington"	on"						,					
16% 19%			0		7	-	230			12	>	****	>	>
16% 19%		SH 1750 O 3	0	en		7	208/220/230	448804		22	>	****	>	>
39% 16% 19% SH 1750 O . 5		SH 1750 O . 5	0 . 5			7	208/220/230	Parkete.	;	22	>	*****	>	>
21 1/2 21 1/4		SH 1750 O 7.	0 7.	7.	10	e	208/220	********	9	22		7111	>	>
24	SH		0	2		-	230	2.71	6	12	*****		2.00	
38,100 20½ 24 38 SH 1750 O 3	#S		0	m		1.2.3	208/220/230/	3.44	0	22	1	***		
			0	40		1-2-3	208/220/230/ 380/440/550	4.09	4	22	ı	1		3.4
91,400 26 35 46 SH 1750 O 7.5	1750 0	1750 0	0 7.5	7.5		5	380/440/550	6.25	4	22	1	6444		1

WATER COOLED CONDENSING UNITS (Continued)

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1,000   2,00
All the control of
### Space   1874   145
### ### ### ### ### ### ### ### ### ##
### State   Corp., 3716 Belinear Ave., Chicago III.—"!Goal Kastle"   1900   1   270   2878
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
1,000   29   14   29   14   190   1   2   1   20   2.18   2   2   2   2   2   2   2   2   2
March   Marc
All Miles, Co., 1000 N. Division St., Pechtalii, N. Y.—"Weethearteri"  41,400 S. 21
1,000   21   24   25   25
Signification   Significatio
Second   S
13,400   28   22   24   29   1750   C   79   C   70   C
181,800   62   34   30   581   7390   C   10   200/220/400   15.6   4   22   4   20   581   7300   C   10   200/220/400   15.6   4   22   4   20   581   7300   C   20   200/220/400   15.6   4   22   4   20   20   20   20   20
120,500   62   34   30   54   1750   C   15   304/220/440   11,00   4   22     210,500   62   34   30   54   1750   C   30   304/220/440   13,4   4   22     210,500   70   10   10   10   10   10   10
## Functor Co., Meditioning Div., P. O. Box 510, Stowney, Corp., Hearing & Air Conditioning Div., Lebenson, Ind.  ### Co., Div. of Corp. Corp., 310 W. Peterson Ave., Classop, 11 Kg. Co., Div. of Corp. Corp., 320 Corp., 220 Corp., 2
Furnace Co.,   Medina, Ohio — "Moncrief"   1723   1   31   320   3.3   3   22
Furnace Co., Mediac, Ohio — "Moncrief"  1 Lite of a "Suff" System  1 Electric Co., Mediac, Ohio — "Moncrief"  1 Lite of a "Suff" System  1 Lite of "Suff" Sys
Funce Co., Medita, Ohio — "Moncrief"  1 Electric Co., Home Hearing & Coeling Dept., Tyter, Texas — "General Electric"  24,000 21 55 30% H 1725 T 2% 1 230 2.49 4 22
In all "Spill" System   In a
Figure   Corp.   Air   Conditioning Div.   P. O. Box 510, Steward   Corp.   Air   Corp.   Air   Corp.   Air   Corp.   Air   Corp.   Air   Corp.   Air   Ai
Fletcrit Co., Home Hearing & Coeling Dept., Tyler, Texas —"General Electric"   230   2.09   4   222   V   20,000   21   55   30%   H   1725   T   2   1   230   2.49   4   222   V   20,000   21   55   30%   H   1725   T   2   1   230   2.49   4   222   V   20,000   21   24,000   2
## 1725   1   230   2.49   4   222   V      ## 1725   1   230   2.49   4   222   V      ## 1725   1   24,000   21   35   30%   H   1725   T   2   T   2   T   2   T   2   T   2   T    ## 1725   T   2   T   2   T   2   T   2   T   2   T    ## 1720   2.49   4   222   V      ## 1720   T   1   2   T   2   T   2   T    ## 1720   T   1   2   T    ## 1720   T   T    ##
Signature regulation   Signature   Signa
36,000 21% 40% 27. Louis, Mo. —"AFCO Comfortmaker"  24,000 21% 40% 27 H 1750 T (1)2 1—3 230/220 2.5 3.15 4 22
or built-in — blower oreliable.  an Furnace Co., 1300 Hampton Ave., St. Louis, Mo.—"AFCO Comfortmaker"  24,000  211%  400%  25
### Furnace Co., 1300 Hampton Ave., St. Louis, Mo.—"AFCO Comfortmaker"  ### 1750
24,000 21½ 40½ 27 H 1750 T 2 1—3 220/220 2.5 3 22
36,000 21% 40% 27 H 1750 T 31 1—3 230/220 3.15 4 22
60,000 26 40% 42 H 1750 T [1]2 1—3 230/220 4.1 4 22
House Electric Corp., Air Conditioning Div., P. O. Box 510, Staunton, Va.—"Westinghouse"           43,000         32         1—3         230/208/220         22         V
## State   Sta
43,000 32 27% 16 5H 1750 0 3 1—3 230/208/220 22 V V V V V V V V V V V V V V V V
60,500 39 28% 16 5H 1750 0 5 1—3 230/208/220 12 V V V V V V V V V V V V V V V V V V
1-Warner Corp., Heating & Air Conditioning Div., Lebanon, Ind.  25,500  421/5  22  304/6  H 1725  T 2  1-3  230/208/220  22  V V V  35,500  421/5  22  304/6  H 1725  T 3  1-3  230/208/220  22  V V V  V  424/6  24  H 1725  T 3  1-3  230/208/220  22  V V V  V V  V V  V V  V V  V V
25,500 42% 22 30% H 1725 T 2 1 20,708,220 22 V V V S6,500 42% 22 30% H 1725 T 3 1—3 230/208/220 22 V V V V V V V V V V V V V V V V V
36,500 42% 22 30% H 1725 T 3 1—3 230/208/220 22 V V V V V V V V V V V V V V V V V
62,000 55% 29% 39% H 1725 T 5 1—3 230/208/220 22 V V V V Mfg. Co., Div. of Cory Corp., 32u0 W. Peterson Ave., Chicago, III. — "Mitchell" 1 230 3.06 3 22 22 1 230 3.06 4 22 1 230 3.06 4 22 1 230 3.06 4 22 1 230 3.06 4 3 22 1 230 3.06 4 3 22 1 230 3.06 4 3 22 1 230 3.06 4 3 22 1 230 4.45
Mfg. Co., Div. of Cory Corp., 32u0 W. Peterson Ave., Chicago, III. — "Mitchell"   23.00 3.06 3 22   22.00   31% 44% 24 H 1725 T 3 1 230 3.06 4 22   23.00   31% 44% 24 H 1725 T 3 1 230 3.06 4 22   22   23.00   24% 26% H 1725 T 5 1 230 4.45 3 22   23.00   24% 26% H 1725 T 5 1 230 4.45 3 22   23.00   24% 26% 26% H 1725 T 5 1 230 4.45 3 22   23.00   24% 26% 26% 26% 26% 26% 26% 26% 26% 26% 26
22,600 3114, 444, 24 H 1725 T 3 1 230 3.06 4 22
38,400 31% 44% 24 H 1725 T 3 1 230 3.06 4 22
23,000 41 491, 261, H 1725 T 5 1 230 4.45 3 22

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100 W   100	The first of the	Model	Cepacity STUH		Cabinet Size (In.)			Compressor			Compressor A	Acter	Foce Area	Cell No.	Refrig.	å	Evep. Coil & Blower Available Down	& Blower able	Ceil & Blower	Net.
10   10   10   10   10   10   10   10	### Authin, Martina Grove, III.    1978   19	- 1		1	I	٥	Туре	RPM	Make	호	Phase	Vellege	(Sq. Ft.)	1	No.	Flew		Heriz.	Comb.	(Ib.)
10   10   10   10   10   10   10   10	10   10   10   10   10   10   10   10	-				Grove,														
2. Self Corp. 147 S. Maldrac, P. O. Francisco, H. C. Self Corp. 175 Self Self Self Self Self Self Self Self	2. Sin Fig. 1979  2. Sin Corp. 147 S. Indiana. P. O. Bert Zh. Kashake, III. — "Permojest"  2. Sin Corp. 147 S. Indiana. P. O. Bert Zh. Kashake, III. — "Permojest"  2. Sin Corp. 147 S. Indiana. P. O. Bert Zh. Kashake, III. — "Permojest"  2. Sin Corp. 147 S. Indiana. P. O. Bert Zh. Kashake, III. — "Permojest"  2. Sin Corp. 147 S. Indiana. P. O. Bert Zh. Kashake, III. — "Permojest"  2. Sin	JRC-28	90,000	21%	321/2	513/4		1200	0	21/2	:	**********	******	1	****	****	****	***	****	******
2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. O. Box 28. Kentates, III. — "Formagina"  2. Seith Corp., 147 S. Indiana. P. Seith Corp., Calif. — "Corp. 147 S. Indiana. P. Seith Corp., III. — "Seith Corp. P. Seith Corp. P	2. Saith Corp., 147 S. Indicato, P. O. Bort 28 Ketaktee, III. — "Permengies"  2. Saith Corp., 147 S. Indicato, P. O. Bort 28 Ketaktee, III. — "Permengies"  2. Saith Corp., 147 S. Indicato, P. O. Bort 28 Ketaktee, III. — "Permengies"  2. Saith Corp., 147 S. Indicato, P. O. Bort 28 Ketaktee, III. — "Permengies"  2. Saith Corp., 147 S. Indicato, P. O. Bort 28 Ketaktee, III. — "Permengies"  2. Saith Corp., 147 S. Indicato, P. O. Bort 28 Ketaktee, III. — "Permengies"  2. Saith Corp., 147 S. Indicato, P. O. Bort 28 Ketaktee, III. — "Permengies"  2. Saith Corp., 147 S. Indicato, P. O. Bort 28 Ketaktee, III. — "Permengies"  2. Saith Corp., 147 S. Indicato, III. — "Saith Corp., 147 S. Indicato, III. — "Permengies"  2. Saith Corp., 147 S. Indicato, III. — "Werefary"  2. Saith Corp., 147 S. Indicato, III. — "Werefary"  2. Saith Corp., 147 S. Indicato, III. — "Werefary"  3. Saith Corp., 147 S. Indicato, III. — "Werefary"  3. Saith Corp., 147 S. Indicato, III. — "Werefary"  4. Saith Corp., 147 S. Indicato, III. — "Werefary"  5. Saith Corp., 147 S. Indicato, III. — "Werefary"  5. Saith Corp., 147 S. Indicato, III. — "Werefary"  5. Saith Corp., 147 S. Indicato, III. — "Werefary"  5. Saith Corp., 147 S. Indicato, III. — "Saith Corp., 147 S. Ind	JRC-210	120,000	21/2	32 1/3	513/4		1750	00	0 1		*********	******	:	****	****	****	****	****	*******
10   20   20   20   20   20   20   20	Second   200   2	JRC-215	240,000	21/2	347/2	53/2	****	1750	00	90	:	***********	*******	:	****	****			***	******
2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, P. O. Box 28, Knishtee, III. —"Vernegles"  2. Saith Corp. 1475. Indicate, III. —"Vernegles"  2. Saith Corp. 1475. — Saith Corp. 1475. Indicate, III. — Saith Corp.	2. Saith Corp. 147 S. Indiana, P. O. Box 28. Reindless, II. —"Vermorgius"  2. Saith Corp. 147 S. Indiana, P. O. Box 28. Reindless, III. —"Vermorgius"  2. Saith Corp. 147 S. Indiana, P. O. Box 28. Reindless, III. —"Vermorgius"  2. Saith Corp. 147 S. Indiana, P. O. Box 28. Reindless, III. —"Vermorgius"  2. Saith Corp. 147 S. Indiana, P. O. Box 28. Reindless, III. —"Vermorgius"  2. Saith Corp. 147 S. Indiana, P. O. Box 28. Reindless, III. —"Vermorgius"  2. Saith Corp. 147 S. Indiana, P. O. Box 28. Reindless, III. —"Vermorgius"  2. Saith Corp. 147 S. Indiana, P. O. Box 28. Reindless, III. —"Vermorgius"  2. Saith Corp. 147 S. Indiana, P. O. Box 28. Reindless, III. —"Sanayless of P. O. Box 28. Reindless, III. — "	105.425	300,000	2817.	4537.	581/2		1750	00	25	:	***************************************	-	:				****		
0. Seith Corp. 175	0. Seith Corp., 175, 63%, 63%, 63%, 63%, 63%, 63%, 63%, 63%	180.230	240,000	2116	341/2	531%		1750	0	30				:					****	
Sample Corp., 417 St. Indicator, P. D. Box 28, Kenteber, III. — "Permofica"   1970	10   25   25   25   25   25   25   25   2	18C-440	480,000	30	481/2	631/		1750	0	40						****				
1.   1.   1.   1.   1.   1.   1.   1.	2. Saith Corp., 1475. Indiana. Co. Box 28, Kaishee, III. — "Permedies"  2. Saith Corp., 1475. Indiana. Co. Box 28, Kaishee, III. — "Permedies"  2. Saith Corp., 1475. Indiana. Co. Box 28, Kaishee, III. — "Permedies"  2. Saith Corp., 1475. Indiana. Co. Box 28, Kaishee, III. — "Permedies"  2. Saith Corp., 1475. Indiana. Co. Box 28, Kaishee, III. — "Permedies"  2. Saith Corp., 1475. Indiana. Co. Box 28, Kaishee, III. — "Permedies"  2. Saith Corp., 1475. Indiana. Co. Box 28, Kaishee, III. — "Permedies"  2. Saith Corp., 1475. Indiana. Co. Box 28, Kaishee, III. — "Sample III.	JRC-850	900.009	30	551/3	6.5		1750	0	20	:		*****		*****					******
O. Smith Corp. 147 S. Indiano, P. O. Sor 28, Karkietee, III. — "Ferragion"  O. Smith Corp. 147 S. Indiano, P. O. Sor 28, Karkietee, III. — "Ferragion"  11	O. Smith Corp., 147 S. Indiano, P. O. Box 28, Kankinee, III. — "Permajora"  O. Smith Corp. 147 S. Indiano, P. O. Box 28, Kankinee, III. — "Permajora"  O. Smith Corp. 147 S. Indiano, P. O. Box 28, Kankinee, III. — "Permajora"  O. Smith Corp. 147 S. Indiano, P. O. Box 28, Kankinee, III. — "Permajora"  O. Smith Corp. 147 S. Indiano, P. O. Box 28, Kankinee, III. — "Permajora"  O. Smith Corp. 147 S. Indiano, P. O. Box 28, Kankinee, III. — "Permajora"  O. Smith Corp. 147 S. Indiano, P. O. Box 28, Kankinee, III. — "Smith Corp. 147 S. Indiano, P. O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 147 S. Indiano, P. O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 147 S. Indiano, P. O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 147 S. Indiano, P. O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 147 S. Indiano, P. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 147 S. Indiano, P. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 147 S. Indiano, P. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 147 S. Indiano, P. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 147 S. Indiano, P. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 147 S. Indiano, P. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011  O. Smith Corp. 140 Dublin Ave., Colomber, Ohlo 2011	JRC-640	720,000	32	521/2	99	***	1750	0	90		MERCHAN	******	-		1		****	1	*******
Section   100   Section   10	0. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. —"Vernegles"  2. Sight Corp. 1475. Inclinate P. D. Box 28 Keakelee, III. — "Samples P. D.	JRC-875	900.000	32	561/2	63	*****	1750	0	7.5		***************************************	********			****		:		
Comparison   Com	Comparison   Com	2JRC-8100	1,200,000	36	6.5	120	*****	1750	0	100		CONTRACTOR OF THE PERSON OF TH	*******	:	****	3444	0.00	*****	****	*******
1976   2576	1976   25%								****		1811									-
150   150	15   15   15   15   15   15   15   15	rermagia	DIV. A.	SMITT	14/ 3.		C. Box	2	1 : 1	Lermos	SDIE									
13   15   15   15   15   15   15   15	15%   25%	HAC-24W-1*		421/2	21%	25%	I	1725	- 1	011	-	230	2.04	4	22	*****	*****	>	***	251
18	178, 178, 178, 178, 178, 178, 178, 178,	HAC-36W-1*		421/3	21%	253/4	Ι:	1725		m e		230	2.92	*	22	-	-	>		310
1876   1876   1876   1876   1877	1   55%   34   11   1725   T   2   1   200   2.04   4   22   7   7   7   7   7   7   7   7	RAC-36W-1		199/6	20	24%6		1725		7 4		230	*******	:	22	>>	>>	>>	>>	300
13   55%   24   H   1723   T   2   1   200   2.04   4   22   H   1723   T   2   1   200   2.04   4   22   H   1723   T   2   1   200   2.04   4   22   H   1723   T   2   1   200   2.04   4   22   H   1720   T   2   1   2   200/200/220   3.47   4   22   T   2   1   2   200/200/220   3.47   4   22   T   2   1   2   200/200/220   3.47   2   2   2   2   2   2   2   2   2	1876   25%   24	KAC-60W-I		21716	23%	90	E	67/1		n			******		77	>	>	>	>	244
18   1856   24   H   1725   T   3   1   230   237   4   22   H   1726   T   3   1   230   237   4   22   H   1726   T   3   1   230   237   4   22   H   1726   T   3   1   230   237   4   22   H   1720   T   2   1   2   230   230   2   2   2   2   2   2   2   2   2	13   15%,   24   H   1723   T   3   1   230   2.92   4   22   H   1724   T   3   1   230   2.92   4   22   H   1725   T   3   1   230   2.92   4   22   H   1725   T   3   1   230   2.92   4   22   H   1725   T   2   1-3   230/200/220   H   222   V   V   V   V   V   V   V   V	24W-1		21	55%	24	I	1725	_	2	-	230	2.04	4	22	:		:	:	239
18   18   18   18   18   18   18   18	18   18   18   18   18   18   18   18	VAC-100-						į	,			-	-							
18	18   18   18   18   18   18   18   18	36W-1*		21	55%	24	I	1725	ju	m	-	230	2.92	4	22		***	*****	****	255
Second   S	Second   S	VAC-150		28	5.0	30	I	1725	-	en		230	2.92	*	22					265
Second Color Chicago, III.   Seany Jond   1725   T   S   T   T	Second Highway, Derivative Mich.   Second Highway	VAC-150-													-					
All Conditioning Div., Surface Combustion Graph, 400 Dublin Ave., Colombia, 600 Div., Surface Combustion Graph, 411 Div., Surface Combustion Graph, 411 Div., Surface Combustion Graph, 411 Div., Surface Combustion Graph, 412 Div., Surface Combustion Graph, 412 Div., Surface Combustion Graph, 412 Div., Surface Combustion Graph, 413 Div., Surface Combustion Graph, 414 Div., Surface Combustion Graph, 415 Div., Surface Combusti	Second Contract New Color   1.5	60W-1*	65,800	28	88	30	I	1725	-	2	-	230	4.19	4	22	****	****		***	375
18   214   214   215	1	*Also availeb	ole in 3 phase.																	-
18   21%	1	Crane Co	836 S.			≡. –	unnyland													
21 21% 21% 21% 21% 11	21 21% 21% 21% 11 1 1 2 1 - 3 200/2001/200		37,350	18			SH	1750	3	e	7	230/208/220	3.47	2	22	>		*****	>	474
21	21 21% 21% 21% 11% 11% 11 25 1—3 200/200 20 4 2 22	W2-1X	28,000	23	211/2	21%	I	1750	jee j	8	7	230/208/220	******	**	22	>	>	>	****	225
Air Conditioning Div., Surface Combustion of Corp., 400 Dublin Ave., Columbus, Ohio  234, 2234, 2234, 2234, 44 H 1723 T 3 1–3 220/220 225	Air Conditioning Div., Surface Combustion Corp., 400 Dublin Ave., Columbus, Ohio  224, 228, 228, 44 H 1720 T 1 2 1-3 230/220  Air Conditioning Div., Surface Combustion Corp., 400 Dublin Ave., Columbus, Ohio  224, 228, 228, 44 H 1723 T 2 1-3 230/220  225, 226, 4121 Jackson St., N. E., Minneapolis, Minn. — "Waterbury"  226, 1121 Jackson St., N. E., Minneapolis, Minn. — "Waterbury"  227, 228, 228, 44 H 1723 T 2 1-3 230  228, 228, 238 H 1723 T 3 1-3 230  228, 228, 238 H 1723 T 3 1-3 230  229, 40 Third St., S. E., Cedar Ropid, lowa — "Century"  229, 40 Third St., S. E., Cedar Ropid, lowa — "Century"  220, 40 Third St., S. E., Cedar Ropid, lowa — "Century"  220, 40 Third St., S. E., Cedar Ropid, lowa — "Century"  221, 222, 223, 223, 223, 223, 223, 223,	W3-1X	42,000	21	211/2	21%	I:	1750	<b> -</b>	m c	7	230/208/220		1.5	22	>:	>	>	****	240
Salar   Sala	Seconditioning Div., Surface Combustion Corp., 400 Dublin Ave., Columbus., Ohio   230/220   22	AW2	24,000	26	2	20	EI	1750	- 6	40		2300	4.0	* *	33	>>	****	*****		400
Air Conditioning Div., Surface Combustion Corp., 400 Dublin Ave., Columbus, Ohio  234, 224, 224, 44 H 1725 T 5 1—3 230/220 22 V V V V  234, 224, 44 H 1725 T 3 1 200 2.11 3 22  10 Janes Coursens Highway, Derrolp, Mich.  236	Air Conditioning Div., Surface Combustion Corp., 400 Dublin Ave., Columbus, Ohio  223, 224, 44  1725, 17  224, 225, 44  1725, 17  227, 227, 44  1725, 17  227, 227, 44  227, 227, 44  227, 227, 44  227, 227, 44  227, 227, 44  227, 227, 44  227, 227, 44  227, 227, 44  227, 227, 47  227, 227, 47  227, 227, 47  227, 227, 47  227, 227, 47  227, 227, 47  227, 227, 47  227, 227, 47  227  227  227  227  227  227  227	2W13	24.000	180	25.	28	I	1750	-	5	7	230/220			22	>>	>	>	>	335
Air Conditioning Div., Surface Combustion Corp., 400 Dublin Ave., Columbus, Ohio  23% 23% 23% 23% 24 H 1725 T 3 1 200 213 3 22 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	Air Conditioning Div., Surface Combarilon Corp., 400 Dublin Ave., Columbus, Ohio 23% 23% 44 H 1725 T 3 1 230 2.11 3 22 · · · · · · · · · · · · · · · · ·	3W13	36,000	118	25	28	I	1750	-	e	7	230/220	*******	:	22	>	>	>	>	350
Air Conditioning Div., Surface Combustion Corp., 400 Dublin Ave., Columbus, Ohio  22%, 22%, 44 H 1725 T 2 1 200 2.11 3 22  22%, 22%, 44 H 1725 T 2 1 200 2.11 3 22  9 Co., 1121 Jackson St., N. E., Minneapolis, Minn. — "Waterbury"  18	Air Conditioning Div., Surface Combustion Corp., 400 Dublin Ave., Columbus, Ohio  22%, 22%, 44 H 1725 T 2 H 1725 T 2 H 20 Dublin Ave., Columbus, Ohio  22%, 22%, 44 H 1725 T 2 H 1725 T 2 H 20 Dublin Ave., Columbus, Ohio  3.1 Jockson St., N. E., Minneapolits, Minn. — "Waterbury"  3.1 Jockson St., N. E., Minneapolits, Minn. — "Waterbury"  3.1 Jockson St., N. E., Minneapolits, Minn. — "Waterbury"  3.1 Jockson St., N. E., Minneapolits, Minn. — "Waterbury"  3.1 Jockson St., N. E., Minneapolits, Minn. — "Waterbury"  3.1 Jockson St., N. E., Minneapolits, Minn. — "Waterbury"  4 Corp., 401 Third St., S. E., Cedor Repids, Iowa — "Century"  5.1 Jockson St., N. E., Minneapolits, Minn. — "Waterbury"  5.2 Joke St., S. E., Cedor Repids, Iowa — "Century"  5.2 Joke St., S. E., Cedor Repids, Iowa — "Century"  6.2 Joke St., S. E., Cedor Repids, Iowa — "Century"  7 Joke St., S. E., Cedor Repids, Iowa — "Century"  7 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.1 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.2 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.3 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.4 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.5 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.5 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.5 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.5 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.5 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.5 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.5 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.5 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.6 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.7 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.8 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.9 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.0 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.0 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.1 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.2 Joke St., S. E., Cedor Repids, Iowa — "Century"  8.1 Joke St., S. E., Cedor Re	5W14	900'09	18	281/4	34	I	1750	-	2	7	230/220	******	;	22	>	>	>	>	455
23%         22%         44         H         1725         T         2         2         2         2         3         3         2         2         3         3         2         2         3	22% 22% 44 H 1725 T 7 3 1 200 2.11 3 22 · · · · · · · · · · · · · · · · ·	Janitro! H		ir Condition	ing Div., Su		bustion	400												
V Co., 1121 Jackson St., N. E., Minneapolit, Minn. — "Waterbury"   130 2.54 4 22    22    2    2    2    2    2	V Co., 1121 Jackson St., N. E., Minneapolis, Minn. — "Waterbury"   130 2.53 4 22    22    2    2    2    2    2	SHW24-55		223%	223%		I	1725	-		-		2.11	•	22		****	-		340
Y Co., 1121 Jackson St., N. E., Minneapolis, Minn. — "Waterbury"         1 230         3.1         4 22         V           34         18         20         H         1725         T         3         1 230         3.1         4         22         V	## Corp., 401 Third St., S. E., Cedar Rapids, Minn. — "Waterbury"  ## Corp., 401 Third St., S. E., Cedar Rapids, lowa — "Century"    Corp., 401 Third St., S. E., Cedar Rapids, lowa — "Century"   1—3 230	SHW36-55	36,900	22%	223/4	77	I	1725	-	•	-	230	2.53	4	22		***	****		370
y Co., 1121 Jackson St., N. E., Minneapolis, Minn. — "Waterbury"         1         230         3.1         4         22         V           38         18         20         H         1725         T         3         1—3         230         3.1         4         22         V <td>y Co., 1121 Jackson St., N. E., Minneapolis, Minn. — "Waterbury"         1         230         3.1         4         22         V         <t< td=""><td>*Models liste.</td><td>d use either fu.</td><td></td><td></td><td>100 (\$31).</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<></td>	y Co., 1121 Jackson St., N. E., Minneapolis, Minn. — "Waterbury"         1         230         3.1         4         22         V <t< td=""><td>*Models liste.</td><td>d use either fu.</td><td></td><td></td><td>100 (\$31).</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	*Models liste.	d use either fu.			100 (\$31).														
Corp., 401 Third St., S. E., Cedar Rapids, lowa — "Century"  21% 21% 21% 21% H 1725 T 2 1—3 230 22 V V V V  21% 21% 21% 21% H 1725 T 2 1—3 230 22 V V V V  21% 21% 21% 21% H 1725 T 3 1—3 220  22 V V V V V  23 SH 1725 C 10 3 220/440 22 V V V V  24 SS SH 1725 C 10 3 220/440 22 V V V  25 SS SH 1725 C (2) 7.5 3 220/440 22 V V V  26 SS	Cop., 401 Third St., S. E., Cedar Rapids, lowa — "Century"  21% 21% 21% H 1725 T 3 1—3 230 22 V V V V 21% 21% 21% H 1725 T 3 1—3 230 22 V V V V 21% 21% 21% H 1725 T 3 1—3 220 22 V V V V 24 24 31 H 1725 T 3 1—3 220 22 V V V V 24 25 32 SH 1725 C 7.5 3 220/440 22 V V V V 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	W.	Water		Inches Co	3 14	1 2		Water	11.000										
Corp., 401 Third St., S. E., Cedar Rapids, lowa — "Century"  211/6 211/5 215/6 H 1725 T 3 1—3 230 22 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Corp., 401 Third Sr., S. E., Cedar Rapids, lowa — "Century"  211/6 211/6 211/6 H 1725 T 3 1—3 230 22 V V V V  211/6 211/6 11/2 211/6 H 1725 T 3 1—3 230 22 V V V V  41 41 1725 T 3 1—3 220 22 V V V V  42 44 31 H 1725 C 7.3 3 220/440 22 V V V V  54 65 32 SH 1725 C (2) 7.3 3 220/440 22 V V V  53 50/5 211/6 H 1725 T 2 1 230 1.75 4 22 V V V  54 65 31/6 SH 1725 C (2) 7.3 3 220/440 22 V V V  55 73 15 SH 1725 C (2) 7.3 3 220/440 22 V V V  56 73 17 2 1 230 1.75 4 22 V V V  57 70 11/6 SH 1725 T 2 1 230 1.75 4 22 V V V  58 70 11/6 SH 1725 T 2 1 230 2.9 4 22 V V V V  58 70 11/6 SH 1725 T 3 1 230 2.9 4 22 V V V V  59 70 11/6 SH 1725 T 3 1 230 2.9 4 22 V V V V  50 70 11/6 SH 1725 T 3 1 230 2.9 4 22 V V V V  50 70 11/6 SH 1725 T 3 1 230 2.9 4 22 V V V V V  50 70 11/6 SH 1725 T 3 1 230 2.9 4 22 V V V V V  50 70 11/6 SH 1725 T 3 1 230 2.9 4 2.2 V V V V V  50 70 11/6 SH 1725 T 3 1 230 2.9 4 2.2 V V V V V V  50 70 11/6 SH 1725 T 3 1 230 2.9 4 2.2 V V V V V V V V  51 70 11/6 SH 1725 T 3 1 230 2.9 4 2.2 V V V V V V V V V V V V V V V V V V	WC.31	34 000		18 18	20			-	n	-	230	3.1	4	22	>				225
Corp., 401 Third St. S. E., Cedar Rapids, lowa — "Centrury"  21% 21% 21% 21% 14% H 1725 T 3 1—3 230 22 V V V V V  1 squeering Co., Inc., 10608 Sante Fe, South Gate, Calif — "Cond-Air"  40 44 31 H 1725 T 3 1—3 220 220 22 V V V V  74 65 32 SH 1725 C 10 3 220/440 22 V V V V  83 73 38 SH 1725 C (2) 7.5 3 220/440 22 V V V  83 73 35 SH 1725 C (2) 7.5 3 220/440 22 V V V  83 73 35 SH 1725 C (2) 7.5 3 220/440 22 V V V  84 74 65 32 SH 1725 C (2) 7.5 3 220/440 22 V V V  85 75 35 SH 1725 C (2) 7.5 3 220/440 22 V V V  85 77 35 SH 1725 C (2) 7.5 3 220/440 22 V V V  85 77 35 SH 1725 C (2) 7.5 3 220/440 22 V V V V  85 77 35 SH 1725 C (2) 7.5 3 220/440 22 V V V V  85 77 35 SH 1725 C (2) 7.5 3 220/440 22 V V V V  85 77 35 SH 1725 T 2 1 230 1.75 4 22 V V V V  86 78 78 78 78 78 78 78 78 78 78 78 78 78	Corp., 401 Third St., S. E., Cedar Rapids, lowa — "Centrury"  21% 21% 21% 21% 1 2 2 3 3 230 2 2 2 2 2 2 2 2 2 2 2 2 2 2					٦.		1	1											1
21% 21% 21% 21% H 1725 T 2 1—3 230 22 V V V V V V V V V V V V V V V V	21% 21% 21% 21% 1 1735 T 2 1—3 230 22 V V V V V V V V V V V V V V V V			40		u.		1	entury											
## Figure Fig. 10608 Sante Fe, South Gate, Calif — "Cond-Air"  ## 1725	Figure-ring Co., Inc., 10608 Sante Fe, South Gate, Calif — "Cond-Air"  1	W2-1X	24,760	21%	211/2	21%	r	1725	- 1	2 0	7	230	******	;	22	>	>	>	>	225
## Fegineering Co., Inc., 10608 Sante Fe, South Gate, Calif — "Cond-Air"  ## 1725	## Figure Fe, South Gate, Calif — "Coad-Air"  ## 1725	W3-1X	38,,630	21 %	21 1/2	21%	E	17.23	-		?	730	******		77	>	^	>	>	240
49 44 31 H 1725 T 3 1—3 220 22 V V V V V V V V V V V V V V V V	49 44 175		Div., Elliott		Co., Inc.,	10608			Call -	Cond-A	14.									
49 44 31 H 1725 T 5 1—3 2200/440	49 44 31 H 1725 T 5 1—3 220		35,200		0.7	25		1725	-	es	7	220	******		22	>	>	>	>	700
74 65 32 SH 1725 C 10 3 220/440 22 V V V V V S	74 65 32 SH 1725 C 7.5 3 220/440 22 V V V V V V SS 73 SH 1725 C 10 3 220/440 22 V V V V V V V V V V V V V V V V	EC 50 RV	58,600	49	77	n	I	1725		40	7	220	******		22	>	>	>	>	1000
74 65 32 SH 1725 C (2)7.5 3 220/440 22 V V V V V V V V V V V V V V	74 65 32 SH 1725 C (2) 7.5 3 220/440 22 V V V V V V V V V V V V V V V V	EC 75 RV	84,660	7.4	6.5	32	HS	1725		7.5	es e	220/440	******	1	22	>		>	>	1200
8.3 73 35 5H 1725 C (2)10.0 3 220/440 22 V V V V V V V V V V V V V V V	0 James Couxens Highway, Defroit, Mich. 25 (2)10.0 3 220/440	EC 100 RV	119,850	74	65	32	H. S	1725		01 10	20 00	220/440	******	:	22	>:		>	> 1	1400
0 James Couzens Highway, Detroit, Mich.  23 401/5 211/5 H 1725 T 2 1 230 1.75 4 22 V V V V V V V V V V V V V V V V V	0 James Couxens Highway, Detroit, Mich.  23 40\h, 21\h, H   1725   T   2   1   230   1.75   4   22   V   V   V    34 40\h, 21\h, H   1725   T   3   1   230   2.9   4   22   V   V   V    35 46\h, 25   H   1725   T   5   1   230   4.2   4   22   V   V   V    36 66\h, 25   H   1725   T   5   1   230   4.2   4   22   V   V   V    37 40\h, 25   H   1725   T   5   1   230   4.2   4   22   V   V   V    38 66\h, 25   H   1725   T   5   1   230   4.2   4   22   V   V   V    39 66\h, 25   H   1725   T   5   1   230   4.2   4   22   V   V   V    30 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	EC 200 BV	239,320	63	73	3.5	I IS	1725		2)10.0	9 00	220/440	*******	2 :	22	>>	1 1	>>	>>	2500
0 James Couzens Highway, Defroit, Mich. 1725 T 2 1 230 1.75 4 22 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0 James Couzens Highway, Defroit, Mich. 1725 T 2 1 230 1,75 4 22 V V V V V V V V V V V V V V V V V													1						1
23 40% 21% H 1725 T 2 1 230 1.75 4 22 $\vee$ $\vee$ $\vee$ $\vee$ $\vee$ $\vee$ 3 1 230 2.9 $\wedge$ 22 $\vee$ $\vee$ $\vee$ $\vee$ $\vee$ 33 1 230 2.9 $\wedge$ 22 $\wedge$ $\vee$ $\vee$ $\vee$ $\vee$ 34 66% 25 H 1725 T 5 1 230 4.2 4 22 $\vee$	25 40% 21% H 1725 T 2 1 230 1.75 4 22 $\vee$ $\vee$ $\vee$ $\vee$ 35 4 32 $\vee$ 4 22 $\vee$ $\vee$ $\vee$ $\vee$ 35 66% 25 H 1725 T 5 1 230 4.2 4 22 $\vee$ $\vee$ $\vee$ $\vee$ $\vee$ $\vee$ 4 $\vee$ 4 22 $\vee$ $\vee$ $\vee$ $\vee$ $\vee$ 4 $\vee$ 4 22 $\vee$ 4 22 $\vee$ $\vee$ $\vee$ $\vee$ $\vee$ 4 $\vee$ 4 $\vee$ 4 22 $\vee$ 4 22 $\vee$ 4 $\vee$ 5 $\vee$ 6 $\vee$ 7 $\vee$ 8 $\vee$ 7 $\vee$ 8 $\vee$ 9	Cool-Ette.	Inc., 20080	James	rens Highw	ray, Detroi														
25 40% 21% H 1725 T 3 1 230 2.9 7 7 7 V V V V V V V V V V V V V V V V	25 40% 21% H 1725 T 3 1 230 2.9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1EV2W	24,760	25	401/2	211/2	I	1725	-	~		230	1.75	4	22	>	>	>	>	300
A A A A 77	A A A P P P P P P P P P P P P P P P P P	1RV3W	38,650	25	40 1/2	211/2	I 2	1725		m w		230	6.0		22	>>	>>	>>	>>	340
	*Also everlibes in 4 photes.	WCV3W	65,800	33	66,00	5		1743		2		200	4.4		77	>	>	>	>	243

WATER COOLED CONDENSING UNITS (Continued)

Corp. Scholdlang of Barg-Wormer Carp. Greatly & York, & "Re-Co-Meric" — "Yorkstadenge"   12   12   12   12   12   12   12   1	No.	(ASRE)	W	Cabinet Size (In.) H	.) D	Туре	Compressor	Make	1	Compressor Meter Phose	r Meter Voltege	Fees Area (Sq. Fr.)	Call Fors	No.	Flow	Down Available Flow Heriz.	Heriz.	Coll & Blower	
11   12   12   12   12   12   12   12	York Cor	p., Subsidia	90			-	ork, Pa	"Flex-O	3	- "Yerka	2								
10   10   10   10   10   10   10   10	WSIM12	Sylvate Legents	221/2	12%	=:	I:	1725	0	1/2	7	115/230/208/220	*******	1	12	****		*****	-	
13	VS1W22	No. of the Party State of the Pa	221/2	127/8	1 1 1		1725	00	22	7 1	115/230/208/220	*****		33	***		*****	*****	
1.	/51VL22	***************************************	221/5	12%	2	I	1725	0	2	7	115/230/208/220		2 1	33				*****	
11.1	71M12	SHEEDSTREET	24	12%	201/2	I	1725	0	3/6	7	115/230/208/220	**************************************		12	****				
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	71VL12	Section 1	24	12%	20%	<b>x</b> :	1725	0	%	7	115/230/208/220	******		12	1	4444		-	
11.5	WINES.	***************************************	24	8/,71	20%	E :	1725	0 (	*	7:	115/230/208/220	*******	1	72	*****	-	1999	ine	
10   10   10   10   10   10   10   10	101412	***********	24	12%	201%	E	1725	00	74	7]	230/208/220	******	1	12	-	-	esse,	-	
1.00	101M22		34	12%	201/2	I	1775	0	-	7	230/208/220	111111		22					
11.1. C	101 VL22	****	24	12%	201/2	I	1725	0		7	230/208/220			12					
12.5	151M12, C		30	171/2	30	I	1725	0	11%	7	230/220/208/440	*******	-	12	****	2006	*****	****	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1517(12,		90	12%	9 5	I :	1725	00	22	7:	230/220/208	· · · · · · · · · · · · · · · · · · ·	1	12	****			10000	
14.7.C	151M22, C		30	1714	2 2	. 1	1725	00	172	7 7	230/270/208/440	********	1		****	L	*****	No. of	
1, 2, 2, 2, 3, 3, 17%   3, 3, 4, 4, 7723   0, 2   1-3   300/230/304/40   12   12   12   12   12   12   12   1	201M12. C		30	17%	30	I	1725	0	2	7	230/220/208/440		‡ . 1	12		****		*****	
11.2. C	201VL12, 6		30	171/2	30	I	1725	0	2	7	230/220/208/440	*******	. 3	12				1 1	
1, 2, 2, 2, 3, 4, 4, 4, 5, 4, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	201M22, C	***************************************	30	0	30	I	1725	0	2	1-2-3	230/220/208/440	***************************************	:	22	****	014			
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	201VL22, C		90	171/2	30	1	1725	0	8	1-2-3	230/220/208/440	******	-	22	****	*****	-	-	
1.5   1.5	301M12, C	***************************************	37	6	34	I:	1725	0 (	m	1-2-3	230/220/208/440	*******	:	2	****	*****	****	-	
13.5   1.5	BOTHETZ, C	***************************************	37	10/2	3.5	<b>E</b> 3	1725	00	m e	1.2.3	230/220/208/440	******		200	****		****	1	
1,2,	301 VI 22		3.5	10	12	2	1726	00	2 6	1.2.3	230/270/208/440	*******		75	Line	***	****	*****	
1,2,00   27   19%   34   1733   0   5   1-34   20%/202/004440   225   22%   23%	501M12. C		33	19%	34	: 2	1725	0	9 147	1-2-3	230/220/208/440		: :	12		*****	****	4664	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	501M22, C		37	191/4	34	=	1725	0	49	1-2-3	230/220/208/440		1 1	22	71110		* 1		
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	501VL22, C		37	191/4	34	I	1725	0	40	1-2-3	230/220/208/440	-		22				****	
### 14,000 23% 227 37% H 1750 O 3 1—3 200/200/240 22 20 20 20 20 20 20 20 20 20 20 20 20	751M22, C		37	191/4	34	I	1725	0	71/2	2-3	220/208/440	*******		22					
18,000   28   23   23   27   27   27   27   27   27	730		28%	23.	37 1/4	I	1750	0	9	7	230/208/220	etteret.		22	*****	****	-	1	
	/50		28%	23*	371/4	I	1750	0	90	7	230/208/220	****	2	22	****	-		****	
fear Colls Co., Fermingdale, N. J. — "ACI"  100	75 Planum	114,300	28%	23.	37 1/4	I	1750	0	21/2	m	208/230/440	******	2	22	****		1111		
H 33,250 45 25 25 5H 1750 C 2 1—3 204/220 2.71 3 122 V H 33,250 45 25 25 5H 1750 C 3 1—3 204/220 3.44 3 122 V H 84,000 45 25 25 5H 1750 C 776 2—3 204/220 4.09 4 122 V H 84,000 57 43% 30% 5H 1750 C 776 2—3 204/220 122 V H 172,400 57 43% 30% 5H 1750 C (2) 7% 2—3 204/220 122 122 V H 172,400 57 43% 20% 5H 1750 C (2) 7% 2—3 204/220 122 122 V H 172,400 57 43% 20% 5H 1750 C (2) 7% 2—3 204/220 122 122 V H 172,400 57 43% 20% 5H 1750 C (2) 7% 2—3 204/220 122 122 V H 172,400 57 43% 20% 5H 1750 C (2) 7% 2—3 204/220 122 122 V H 172,400 57 43% 20% 5H 1725 T 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																			
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## 84,200 4.5 25 25 25 5H 1750 C 5 1-23 208/220 4.09 4 222 V V 124,000 57 43% 30% 5H 1750 C 7% 2—3 208/220 6.25 4 222 V V 124,000 57 43% 30% 5H 1750 C 12/3% 2-3 208/220 2.3 122 V V 124,000 57 43% 30% 5H 1750 C 12/3% 2-3 208/220 2.3 122 V V 125,000 2.3 184, 21% 40 West 4Orb St., New York, N. Y. — "American-Standard"	70.11	93 260	37	3.6	3.6	77	1740				200/200	2 44		12			*		
H 86,200 45 25 25 SH 1750 C 77/6 2—3 208/220 4.09 4 22		20,4,55	2		2	5	200	,	9	?	NAS /800	0.44	,	12	****	****	>	>	
Head	150.H	62,000	43	25	25	SH	1750	U	40	1-2-3	208/220	4.09	*	22	***	*****	>	>	
H 144,000 57 43% 30% SH 1750 C (2) 5 2—3 208/220 122 122 172,400 57 43% 30% SH 1750 C (2) 7% 2—3 208/220 122 122 122 122,400 57 43% 20% SH 1750 C (2) 7% 2—3 208/220 122 122 122 122,500 2.53 38% 21% H 1725 T 2 3.0 2.53 4 2.23 4 2.22 # # # # # 1725 T 2 3.0 2.53 4 2.23 # # # # 1725 T 2 3.0 2.11 2 20 2.11	75-H	86,200	45	25	25	3	1750	U	71/2	7	208/220	6.25	*	22	-	****	>	>	
Fig. 10   Fig.	100.1	144 000	0	431%	301%	13	1240		121 6	2 4	000/000			12					
172,400   57   43%   30%   SH   1750   C   (2) 7%   2—3   208/220       122,400   25   38%   21%   H   1725   T   2   1   230   2.13   3   22   ‡   ‡   ‡   ‡   ‡   ‡   ‡   ‡		20012		3/ 00	9/ 00			,	2 (4)		000/ 650		:	12	****	****		****	
Con-Standard Corp., Air Conditioning Div., 40 West 40th St., New York, N. Y. — "American-Standard"   25,680   25   38%   21%   1725   T   2   1   230   2.53   4   22   4   4   4   4   4   52   5   1   230   2.11   2   22   4   4   4   4   5   4   5   4   5   5	150-H	172,400	22	431/2	30%	HS	1750	0	(2) 71/2	273	208/220	seeses.	1	22	*****	***		*****	
25,680 25 38% 21% H 1725 T 2 1 230 2.11 3 22 # # # # # # # # # # # # # # # # #	ıe		Air		\$	40th	New Y	ork. N.	Y "A	nerican-S	'onderd"								
## 24,700 25 38% 21\% H 1725 T 3 1 230 2.53 4 22 # # # # # #			2		1/2	I	725	1		-	230	2.11	67	22	**	**	**	**	
Mfg. Co., Evansport Rd., Eryan, Ohio — "Bard"  Mfg. Co., Evansport Rd., Eryan, Ohio — "Bard"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"  Man Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Mo.	A-3.	38,020	25	38 %	211/2	I	1725	-	es	-	230	2.53	4	22	*	**	. **	. **	
Mfg. Co., Evansport Rd., Bryan, Ohio — "Bard"  Mfg. Co., Evansport Rd., Bryan, Ohio — "Bard"  Mfg. Co., Evansport Rd., Bryan, Ohio — "Bard"  26,350  26,350  35  24  35  35  24  37  37  37  37  37  37  37  37  37  3	A-5*	62,900	42	461/4	231/2	I:	1725	: 1	<b>4</b> 0 (		230	5.93	e	22	*	**	*	**	
Mfg. Co., Evansport Rd., Bryan, Ohio — "Bard"  Mfg. Co., Evansport Rd., Bryan, Ohio — "Bard"  Mfg. Co., Evansport Rd., Bryan, Ohio — "Bard"  24,335  24  24  25  25  26  27  27  27  27  27  27  27  27  27	A-2H*	24,180	43%	2 2	23 23	I I	1725	- ,	P1 P		230	2.11	2 5	22	**	**	** -	**	
Mfg. Co., Evansport Rd., Bryan, Ohio — "Bard"  Mfg. Co., Evansport Rd., Bryan, Ohio — "Bard"  42,335	an annillah	So, Oato	1/5°	filead with furn			67/1		2		730	7.33	7	77	*			10-	
Mfg. Co., Evansport Rd., Bryan, Ohio — "Bard"  20,330 33 24 24,330 35 24 24,330 35 24 24,330 35 24 24,330 35 24 24,330 35 24 24,340 35 24,540 35 24,540 35 24,540 35 24,540 35 24,540 35 24,540 35 24,540 35 24,540 25 25 25 25 25 25 25 25 25 25 25 25 25																			
28,350 55 28 24 5H C 2 1 230 2.1 3 12 V V V V V V V V V V V V V V V V V V		Co., Evans	Rd.	ryan, Ohio -	"Bard" -														
### Air Conditioning Co., 4505 Olive St., St. Louis, Mo. — "Kauffman"    24,760	100	28,350	55	28	24	SH	*********	U	2 5		230	2.1	es e	22	>	>	>	>.	
24,760 20 53 26 H 1750 T 2 230 22 20 4 1750 T 3 220 230 25 25 25 25 25 25 25 25 25 25 25 25 25	100	70,900	90	33	24	S. HS	**********	J ()	2 10		230/220	3.88	2 4	12	>>	>>	>>	>>	
24,760 20 53 26 H 1750 T 2 230 220 230 44,600 20 53 24 H 1750 T 3 230 230 230 230 230 230 230 230 230 2			1	AFOR OUR	1	-	1 1	100											
24,760 20 53 26 H 1750 T 2 230 22 230 22 230 22 230 22 230	202	Air Conditio	Co.	4505 Olive	24.	s, Mo	2							1					
ACTION 35 AA 26 IN 1730 I 5 1,000 III	**	24,760	20	53	26	I	1750		2 1		230		1	22	Sept.	1000	See.		
	**	38,030	22	25	26	. 3	1750		7) 4	1	230	Santana.		*****	*****	144	****	33466	

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Model No.	Copority STUH (ASRE)	3	Cabinet Size (In.)	٥	Type	Compressor	Moke	1	Compressor Motor Phase Voltage	leter Veitage	Face Area (Sq. Ft.)	Cell Ne. Rows	Refrig.	Figs	Evap. Co Ava Down Flow	Evap. Coil & Blower Available ow Heriz.	Coil & Blower Comb.	Met (Ib.)
=	Industries, In-	12	Field, P.	Box.	12	forth, Texas	- "Ran	Rangaire"								1		
572	26,700	23%	27%	57 1/6	HS S	1750	U	21		230		1	2 5	>>	>>	>>	****	400
574	52,200	23%	27%	57 16	E HS	1750	) U	9 40	77	230/220		: :	12	>>	>>	>>		290
57.5	99,000	23%	33%	61%	SH	1750	U	40	_	230/220	*****	:	12	>	>	>	****	910
578	92,000	47 1/2	27%	571%	H.S.	1750	U	71/2	en e	220		*	12	>>	***	>>	****	923
5710 F-573	38.700	23%	273%	57.16	F 35	1750	00	2 6	2	230/220		: :	22	>>	>	>>	1 1	515
E-574	58,700	23%	27%	57%	SH	1750	0	4	7	230/220		:	22	>	>	>	1	524
E-575 E-578	94,300	23%	33%	61%	H H	1750	υυ	71/2	<u>_</u>	230/220	: :	1 1	22	>>	> !	>>	11	860
Q.	Div., Chrysler	Corp.	1600 Webster	54.	n, Ohio	- "Airtemp												
		35				1750	0	0	_	230	******	1	22	>	>	>	>	23022443
1305-2##	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	48%	351/2	193/4	SH	1750	0	40		230	And her	:	12	>	>	>	>	
1308-2##	# # # # # # # # # # # # # # # # # # #	48%	351/2	193/4	HS 3	1750	00	10/2	c4 c	220		:	22	>		>	>>	
131544	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	88	35%	28	T YS	3500	00	15	10	220			22	****			>>	
2103-1	198,000	3.			E S	1750	0	15	:	:	11.1	:	12	1	-	****	1	1735
2105-1	331,000				SH	1750	0	25	: :	: :			12		***	1	****	2350
2107-1	461,000				E 2	1750	0 (	40	: :	: :	******	:	12		***	I	1	3400
2108-1	329,000				E SE	1750	00	5 5	:	:		:	12	****				3875
2112-1	791,000				H.S.	1750	0	9	:	:		: 1	12				-	4400
2114-1	922,000				HS	1750	0	7.5	:	:			12	-	****		***	4950
2203-1	321,000		•		SH	1750	0	25	: :	: :	******	1	22	*****	****		*****	1854
2205-1	534,000				<b>3</b> 3	1750	00	40	::	: :	******		22	1	****	****	*****	2775
2204.1	8.55 000				HS	1750	00	75	:	*		: :	22					3500
2210-1	1,068,000				15	1750	0	100	:		*******		22		1	1	-	4113
2212-1	1,284,000			•	SH	1750	0	100	::	: :	-	1	22	1	-	***	****	4855
2214-1	495,000	Beauties this	overlinkie is	3 share	-	1750 ohle in 2 and 3	3 phose.	125	:		WOODEN	*	7.7	****	****	***		2294
100	2	- namaha			1													1
rier	Corp., 300 S.	å	Syracuse,	N. Y "C	Carrier			-		;			,					
6133	3180*	28%	17%	14%	SH	1750	U	2:2:		115	******	*	12	4040	****	*****	****	125
6750	6440	28%	17%	14%	HS 4	1750	0 (	1/2	9 6	220	******	D)	12		***	****	****	140
6710	13 000*		167/4	182%	F 25	1750	0	1 74	n en	220			12					180
6715	17,900*		16%	183%	HS.	1750	U	11/2	100	220	Kaneses	1	12	*****	****	-	****	196
6021	27,950*		21%	12	SH	1750	0	2	6	220	******		12		****	*****	****	181
6D40	36,875		22%	14	HS.	1750	00	es e	m r	220	*******	:	12		****	1		190
8DZ8	30,830*		27.7%	14	25	1750	00	2 40	2 67	220		1 1	12	1 1	******	1 1		294
6D48	105,250*	39%	27%	7	SE	1750	0	71/2	0	220	*****		22		****	****	****	330
89Q9	120,600*		31%22	151/2	SH	1750	0	10	•	220	*****	:	22		****	1		474
	and a cond			III when	N. M. O. C.	10												1
	3		Wdshington, Pe	reoria, III	Meyer		-	6	7	230		4	33	>				328
HC2-2	37.450	<u> </u>	4 4	20	E		-	n en	7	230	* * * * * * * * * * * * * * * * * * *	•	22	>>			2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	350
HC2-5	65,800	21	49	30	I	61111	9= (	W) (	7	230	*******	4.	22	>		****	17	525
HC2-21	25,770	10	99	20	I		j- 1	P4 0	7:	230	****	* *	22	>		*****	> 7	333
HO.S.	37,450	16	40	30	rı	****		ng 40	77	230	# 0 0 0 0 0 0	• •	77	>>	1 1		>>	575
10.50	- 1	.			- 1	1			1:									1
Perfection		10	-	1135 Ivanhoe	_	nd.	Ohio -	Perfection					:					000
PW83	96,000	37	24	221/2	3 3	1750	U	27/2	m e	208/220	****	ı	22	***	-		>>	230
PW103	130,300	52	37	35	S. H.	1750	, u	(2) 71/2	າ ຕ	208/220	1 1	: :	22	1 1	1 1	1 1	>>	1180
FW203	261,000	62 6	1 3	5 60	35	1750	U	(2)10	m	208/220	******	: :	22	1	1	-	>	1225
PW253	288,000	62	4:	35	H. 7	1750	v	(3) 71/2	es e	208/220	***************************************	:	22	*****	****	*****	>:	1945
PW303	391,500	2 2	77	45	F 25	1750	ں ر	(4)10	n m	208/220	*******	: :	2 22		1 1	-	>>	2650
			i															

	Cosecity										Even. C	3			Eves. Co.	il & Blower		No.
Medel No.	(ASRE)	W	Cabinet Size (In.)	0	Type	Compresser	Moke	2	Compressor A	Meter	Foce Area (Sq. Pt.)	No.	Refrig.	Flow	Down	Hariz.	Call & Blower Comb.	(18.)
Typhoon	Air Conditi	loning Co., Div.	of	Hupp Corp., 50	505 Carroll	1 St., Brook	Ivn. N.	Y "Ty	"phoon"									
H-46-HS	42,000	37	24	221/2	I	1750			9	208/220	3.36	*	22	>	****	>	>	375
H-66-HS	71,500	37	24	22 1/2	HS	1750	U	49		208/220	5.75	*	22	>		>	>	525
H-86-HS	96,000	37	24	221/2	HS	1750	U	71%		208/220	6.21		22	>		>	>	260
116-HS	130,500	52	37	27	0	900	-	10	0	208/220	7.87	89	12	-000	-	-	>	1050
H-116-HS	130,500	52	37	27	I	1750	U	10		208/220	7.87	49	22	****		*****	>	1130
166-HS	202,000	62	77	35	0	570	-	1.5	0	208/220	13.0	10	12	***************************************	2444	***	>	1685
H-166-HS	192,000	62	77	35	I	1750	0	(2) 71/2	69	208/220	13.0	10	22	1000	****	****	>	1220
H-216-HS	274,000	62	44	35	I	1750	0	(2)10	3	208/220	13.0	9	22	*****	*****		>	1270
266-HS	327,000	62	44	35	0	1400		25	0	208/220	13.0	•	12		-		>	1990
H-266-HS	288,000	62	77	35	I	1750	o	(3) 74/2	3	208/220	13.0		22	*****	2000	****	>	1890
H-316-HS	411,000	78	77	45	I	1750	U	(3)10	9	208/220	21.0	•	22	*****		*****	>	2245
416-HS	528,000	84	77	45	0	980	:	90	3	208/220	21.0		12	****		-	>	2650
H-416-HS	522,000	84	**	45	I	1750	U	(4)10	0	208/220	21.0		22	****	*****	*****	>	2550
*Schnocks.	**Brunner.																	

# AIR COOLED PACKAGED AIR CONDITIONERS

Model No.	Capacity STUH 95° F		Cabinet Size (In.) W H	re (In.) D	Type	Comp	Campressor RPM Ma	Make HP	mpresse Phose	npresser Motor Phase Voltage	ž	Evap. Blewer CFM	lewer A RPM		Evep. Blower Motor No. HP	ž	Condenser Blower	M-SPM	Cend. No.	Cand. Blower Motor No. HP	Fuce Area (Sq. Ft.)	- 1 E	Cend. Ceil Face Area No (Sq. Pt.) Ro	Cell No.	Z	Refrig.	78 E
August	t G. Bar	G. Barkow Mfg. Co., Inc., 2230 South 43rd St., Milwai	J. Co.,	Inc., 22	30 50	uth 43	rd St.	Milwa	ukee.	Wis	"We	Weatherwise	ise"														
CK2-A	24,000	31	62	21	¥	1725	5 +	24	-	230	-	800	0 650	- 0	1/2	-	2400	920	-	1/2	2.66	4	3.33	•	22	*	470
OK3-A	36,000	31	62	21	I	1725	50 50	9	7		1 02	1200	0 650	- 0	%	-	2400	920	-	%	2.66	4	3.33	•	22	•	490
CKS-A	90,000	33	92.60	28	3.3	1740	00	W) (%	7-	3 208/220	200	3000	650		23	- 6	4800	700	- 0	22	4.12	44	7.33	00	12	10%	106
RO3.A	36.000	34%	23%	29 1/2			, ,	. 01	-		0		,			-	2400	650	-	2	2.21		3.33		22	1,4	470
ROS-A	900'09	40%	%09	26 1/2	I	1740	1	100	7		0					-	4800	700	-	*	4.62	*	7.33	•	22	2	******
Cool-E	Cool-Ette, Inc.,	20080	James Couzens	Coursen		WGY.	Highway, Detroit,	f. Mich.	1	"Ranch-Ai	ire.																
175AH 301AH	175AH 19,250 301 301AH* 34,000 301		18%	18% 39% 28 49%		1725	NO NO	200		230		1200	1140	:7	: %		1200	1140		22	3.06	44	2.25	44	22	4.0	249
O. A.	O. A. Sutton Corp., Inc., 1812 W. Second St., Wichita, Kan	orp., In	E. 1812	W. Se	cond	St. W	chita.	Kan		"Vornado"																	
82008-2 8350C-2 For evap	825008-2 23,500 291/2 8350C-2 39,000 361/4 For evaporater and condenser	29 1/2 36 1/4 condenser.	20%	39 % 47 %	II	1725	H H	(2)1		230	- 2	785	1120		22		***************************************	1120	:-	1%	2.7	64	3.6	m 4	22	3/6	343
Lennox	Industri	Industries, Inc.,		Marshalltown, lowa	lowe		- "Lennox"																				
CHA4-201	CHA4-201 22,000	30%		42	I		S BW	64	-	230	-	900		-	1/2.	- :	1872	1080	-	%	1.87	4	3.75	en	22	41/4	450
CHA4-301	CHA4-301 34,000	38 1/6	28	5113/6	I S	1725	1 5	m	-	230	-	1200	1909	-	%	-	3380	808	-	%	2.69	4	5.93	m	22	3/4	650
CHA3-501	CHA3.501 * 58,000 58;	581/s phase.	28	66% SH 1725 T-C S **Uses same meter for Evap. Blower & Cond.	SH setor	1725 for Evap.	S T.C		Power Prop.	230 rop.	-	2000		-	%	-	4650	432	-	%	4.7	4	9.08	n	22		1025
_	Engineering Corp.,	g Corp.	3716	3716 Belmont	t Ave.		Chicago, III.	1.1	(ool Kastle"	"oltst																	
28TA 3.8A	36,700	30	22	29	II	1800		es 10		220		1220	700		7,7		2500	1125		<b>%</b> %	4.16	n n	9.15	- 64	22	9 1	300
Gibson GO-21A GO-31A GO-50		Refrigerator Ce., Div. of Hupp 22,000 29 24 49 35,000 29 24 49 49 36,000 29 64	5. DIV.	1 6 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	O TII	. G	BW BW BW	Greenville, Mich	1	"Gibson" 1 230 1 230 1 230		700 1100 1700	1450		222		2600 3700	1075 1075 1725		. 32	1.75 2.33 3.61	044	3.36	044	222	*******	320 520 625
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. ~ 1	Model No.	Capacity STUM 9 95° F		Cabinet Size (In.) D	(In.) D	Type	Compr	Compressor RPM Make		Phase	Compressor Motor HP Phase Voltage	- Š	Evap. Blower CFM	RPM		Evap. Blower Motor No. HP	ž	Condenser Blower p. CFM RPM	RPM	Cond.	Cond. Blower Metor No. HP	Foce Area (Sq. Fr.)	P. Coil in No.	Cond Face Are (Sq. Fr.	a No.	Refrig.	ig. (ib.)	Wr.
O PP 8	General TC24A TC37 *Air coole	General Electric Co., Home 1C24A 24,000 31½ 21 TC37 36,500 31½ 25 Air cooled units rated in Kilowatts.	31 % 31 % 31 %	Co., Home Heating 31% 21% 44 31% 25% 44 i in Kilowatts.	eating 44	0 ==	0	ept. T	ryler, Tes 2.65° 4.42°	Texas -	- "General 230 230	2	Electric" 1 800			%%		1600	***************************************		%%	2.0	44	6.8	44	22	F 80	370
- 46.	A. Brow 201-0H 301-0H*	A. Brown Products 201-OH 21,000 38; 301-OH* 34,000 48; *Also available in 3 phase.	38% 48% phase.	A. Brown Products Corp., 97 - 12 Metropolitan Ave., 201-OH 21,000 381% 161% 301% H 1725 901-OH 34,000 481% 267% 301% H 1725 *Also available in 3 phase.	12 Met 30% 30%	logor I	itan Av 1725 1725	e	Forest Hi	Hills, N.	Y. 230		750	1140	1-	135		1200	1140		22	3.07	**	2.25	44	22	4.0	399
-44	Armstrong Fut 42-R10-21 19,000 42-R10-31 35,100	19,000 35,100	27 27 33%	Armstrong Furnace Co., Div. of National Union Electric 12:810:21 19:000 27 221%, 51 H 1750 T 12:810:31 35,100 331/, 277%, 521% H 1750 T	of Natio	D TT	Inion El 1750 1750	lectric T	Corp.,	851	W. Third 230 230	rd Ave.,		Columbus, 800 1030 800 Yer.	Ohio	1	"Armstrong"	1500 2600	850		22	1.83	66	8. 8. 8. 8.	88	22	3.6	358
	Thatcher PAC21 PAC31*	Thatcher Furnace Ce., AC21 21,000 30 AC31 34,000 30/6 Also available in 3 phase.	30 % 30% 3 phase.	Cente 18 28	7 St., Garwood 38 H 48% H **Lished in ounces.	H H H	d, N. J.		- "Thatcher"  T 134  *Dual.		230		750	1140		* %		1200	1140		22	3.05	**	2.25	44	22	70**	250
- 111	Mercury Div., MS-21 22,000 MS-41 36,000 *Listed in ounces.	22,000 36,000 ounces.	ord & 29% 36% 36%	Mercury Div., Lord & Palmer, Inc., Belding, Ms.21 22,000 29% 20% 39% 39% H Ms.41 36,000 36% 24% 47% H H Listed in ounces.	39% 47%	ig z z		Mich. — "Mercur 1725 T 1725 T	ercury"		208/230	00 1	900	1125		22		1650	1125		22	2.7	n 4	5.6	0.4	22	\$6.0	343
	Whirlpo R6200-3 R57200-3	Whirlpool Corp., St. Re200-3 17,300 44 857200-3 17,500 291%	29 1% 29 1% Evap.	0	seph, Mich. — "RC/ 2034 29% H 23 32% H **At 0.3" External Static.	H H H Static.	-	Whiripool" 1725 T 1725 T 1725 T 1725 T	Whirlpool" 134 1725 T 184 1725 T	Static.	230		645**	1050		22		006	1050			1 1	n n	11	mm	22	2%	225
I TETT	Lonergar H2A21 H3A21* H4A21	Lonergan Mfg. Div. H2A21 21,000 26 H3A21 30,000 365 H4A21 40,000 363, Also available in 3 phase.	26 36% 36% 96%	Lonergan Mfg. Div. McGraw-Edison H2A21 21,000 26 17% 36 H3A21 20,000 36% 26% 40% H4A21 40,000 36% 26% 48% *Also available in 3 phase.	dison C 36 40% 48%	Co. 3.	Albion, Mich. 1725 T H 1725 T 1 1725 T	Mich.	(2)2	"Coolerator" 2 1 3 1 (2)2 1	230 230 230		800 1250 1625	1650 1650 1030		222		1100 2000 2400	1650 1650 1100		2%2	1.5 2.54 3.5	* 00 %	4.06	n in in	222		234 478 506
10 44	Century A-200 A-350	Century Engineering A-200 22,000 24 A-350 36,000 32	oring C	Corp., 401 Third 21 40½ 24½ 48%	40½ 48%	S s	, E	a report	St., S. E., Cedar Rapids, I. H T (2)1 H T (2)1%	lowa -	- "Ce	230 1 230 1	Coolpak	1725 1725 1725		22	- 0	1500	1725		22	11	1.1	11	1.1	22	en 40	343
1 = 2 2 2 2	McGraw MH2A21 MH3A21* MH4A21	McGraw-Edison Co., MH2A21 21,000 26 MH3A21* 30,000 36 MH4A21 40,000 36 MH4	10.4	Lonergan 17% 26% 26%	36 H 40% H 48% H		Div., Albien, 1725 T 1725 T 1725 T	bion,	Mich	W	230 230 230 230	Bowman" 1 8 1 12 1 16	800 1250 1625	1650 1650 1050		222		1100 2000 2600	1650 1650 1100		222	3.5	460	4.0	40 89 40	222		234 478 506
14	merica	American Blower Div.,	r Div.	American-Standard,	in-Stand	dard.	8111 Tireman	Ireman	Ave	Detroit,	it, Mich.	1	"American Blower"	can Bi	DWer"													
×	SCAB	53,000	42	85%	24	SH	1750	•	un.	7	220/44		2000	787	-	%	-	3500	540	-	%	4.93	m	8.16	4	22	201	10701
10	10CA8 10	78,000	08 99	% 48	30	£ £	1750		10	n n	220/440 208/ 220/440	- 2	3000	623		- ~	2 2	7700	645		% %	7.30	e e	13.0	4 4	22 23	36†	1450#
10	10DA8 10	106,000	99	87%	30	HS.	1750		(2)5	0	220/44	2	4000	662	-	81	-	3500	540	-	%	10.08	6	8.16	4	22	40.	2000\$
50	15DA8 1	156,000	2	96	31 1/4	SH	1750		(2)71/2	6	220/44	2	0009	574	-	69	2	4900	645	-	%	14.68	n	10.9	4	22	26**	\$0992
200	*Corrier	210,000 108 96 ‡With 25 feet of liquid line.	108 feet of liq	96 quid line.	31 1/4 SH 1750	SH in each	1750 circuit.	#Exch	* (2)10 ‡Excludes weight	0 40	220/440 condensers.	6	9000	594	-	45	~	2700	625	-	11%	19.33	m	13.0	4	22	72**	3500\$
12 44	Peerless HA-223-1 2 HA-363-1 3	Corp., 1 22,000 36,000	29% 23% 23% 29% 23%		Indianapolis, 43% H 43% H		Ind. — 1725 1725	-	"Clima-Pac"  8W 2 T 3½		230		1200	Parameter .		22		2200	1075		22	11/2	n 4	9. 6.	m 49	22	11	320

### WATER COOLED CONDENSING UNITS (Continued)

	Capting										frup.	3			Fvop. Ca	oil & Blower		25
Medel Na.	(ASRE)	*	Cabinet Size (In.)	O	Type	Compressor	Make	H	Compressor A	Asier	(Sq. Ft.)	No.	Refrig.	Flow	Flaw	Heriz.	Coil & Blower Comb.	
Typhoon	Air Conditionin	ioning Co.,	Div. of H	upp Corp., 50	15 Carroll	St., Brook!	yn, N. 1	1 "Ty	"hoodo									
H-46-HS	42,000	37	24	221/2	I	1750	-			208/220	3.36	*	22	^	No.	>	>	375
H-66-HS	71,500	37	24	22 1/2	SH	1750	0	100	•	206/220	5.75	*	22	>		>	>	525
H-86-HS	96,000	37	24	221/2	SH	1750	U	71%	•	208/220	6.21		22	>		>	>	340
116-HS	130,500	52	37	27	0	900	-	10	•	208/220	7.87	45	12				>	1050
H-116-HS	130,500	52	37	27	I	1750	U	10	•	208/220	7.87	40	22	-		****	>	1130
166-HS	202,000	62	77	35	0	570	-	15		208/220	13.0	10	12				>	1685
H-166-HS	192,000	62	**	35	I	1750	U	(2) 7%	•	208/220	13.0	47	22	A STATE OF THE PERSON NAMED IN			>	1220
H-215-HS	274,000	62	77	35	I	1750	U	(2)10	n	208/220	13.0	•	22	****		1	>	1270
266-HS	327,000	62	44	35	0	1400		25	en	208/220	13.0		12				>	1990
H-266-HS	288,000	62	44	35	I	1750	U	(3) 7%	•	208/220	13.0		22	*****	****	*****	>	1890
H-316-HS	411,000	84	44	45	I	1750	U	(3)10	•	208/220	21.0	•	22	*****		*****	>	2245
416-HS	528,000	72	**	45	0	890	:	40	m	208/220	21.0	90	12	-		****	>	2650
H-416-HS	522,000	84	44	4.5	I	1750	U	(4)10	•	208/220	21.0		22	*****	****	-	>	2550
*Schnecks.	**Brunner.																	

# AIR COOLED PACKAGED AIR CONDITIONERS

Medel No.	Capacing Capacity STUH © 95° F		abinet Siz	Cabinet Size (In.) W	Type	Compre	Compresser RPM Make	25	Phose	Compressor Motor HP Phose Voltage	ž	Evop. Blewer CFM	W48	Evep. Blower Motor No. HP	Metor KP	S .	Condenser Blower		Cend. Blewer Meter No. HP	1,1	Face Area No. (Sq. Ft.) Rows	Coll No.	Face Arr	f. Call	_ z	Refrig.	Net (lb.)
August CK2-A	August G. Barkow Mfg. Co., Inc., 2230 South 43rd St., Milwai CK2-A 24,000 31 62 21 H 1725 T 2	low Mfg	. Co.	Inc., 223	No Seu	1725	1 54.	Milwan	ykee, W	Wis "	* -	Weatherwise"	650	-	×	-	2400	650	-	1	2.66	-	3.33		1	-	
A-CXO	36,000	31	62	21	I	1725	-	•	7	230/	-	1200	989	-	2	-	2400	920	-	%	2.66	4	3.33	•	22	•	740
CKS-A CK75-A	90,000	33	97.79	28 27%	S S	1740	vv	3 7 1/2	7-	230/ 208/220 208/220	- 8	3000	919		**	- ~	4800	700	- 2	22	4.12	44	7.33		22	10%	1340
RO3-A	36,000	34%	231/2	291/8	I	1725	-	•	7	208/220	1	-		1	1	-	2400	650	-	1/4	2.21	*	3.33	•	22	1%	470
ROS-A	900'09	40%	%09	26%	x	1740	-	40	7	208/220	1	Restricted	Reserved	:		-	4900	200	-	%	4.62	*	7.33	•	22	64	
Cool-Er	Cool-Effe, Inc., 20080 James Ceuzens 17544 19-250 30% 18% 39% 3914 301Aff 34,000 30% 28 49% Also evellable in 3 phose. "Same as condense	2	James 18% 28 **Same	James Couzens 18% 39% 28 49% **Same at condenser		Highway, Detroit, Mich H 1725 T 2 H 1725 T 3	etroit,	Mich.		"Ranch-Aire"		750	1140	:-	: 3		1200	1140		22	3.06	44	2.25	**	22	5.9	399
0. A. S 82008-2 8350C-2 For evap	O. A. Sutton Corp., Inc., 1812 W. Second St., Wicklita, Kan. — 32306. 23,500 29½, 20%, 39% H 1725 T (211 2830C. 23,000 36½, 24½, 47%, H 1725 T (211%) For evaporator and condenser.	29% 29% 36% condenser.	20% 20% 24%	W. Sec 39% 47%	S II	f., Wic 1725 1725	hita, I	(2)1 %	"Vornado" 1 230	230 230	- 8	785	1120		22		***************************************	1120	:-	1%	1.9	64	5.4	24	22	374.	343
CHA4-201 22.000	Industric 22,000	es, Inc.,	Marsh 22	industries, Inc., Marshalltown, Iowa "Lennox" 22 000 304, 22 42 H 1725 BW	DWOI	- "Le	"woul	~	-	230	-	900	1080	-	% %	-	1872	1080	-	** %	1.87	,	3.75		22	4W.	450
CHA4-301 34,000	34,000	38 %	28	5119/4	I	1725			-	230	-	1200	718	-	* *	-	3380	808	-	2	2.69	4	5.93		22	71%	6.50
CHA3-501* 58,000	CHA3-501* 58,000 589	58¾s phase.	28	66% SH 1725 T.C 5	SH metor fo	1725 or Evap.	T.C. Blower &		Power Prop.	230	-	2000	242.	-	%	-	4650	432	-	*	4.7	4	9.98	6	22	Parametri.	1025
Kool En 281A 3JBA	Engineering Corp., 3716 Belmont Ave., 24,000 29 22 29 H 36,700 29 22 29 H	g Corp.	3716	Belmont 29 29	Ave.,	Chicago, III. — "K	go, III.	. — "Ko	Cool Kastle"	220 220		790	1000		22		2500	1125		22	2.92	MM	9.94	- ~	22	27	300
Gibson GO-21 A GO-31 A GO-30	Gibson Refrigerator Co., Div. of Hupp 50-21A 22,000 29 24 49 50-31A 35,000 29 24 49 50-50 50,000 36 40 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	afor Co. 29 29 36	24 Div.	of Hupp 49 49 64	Corp	Gree	Greenville, Mich. 2 2 8W (2)1% 8W (2)1% 8W (2)2%	Mich2 (2)1% (2)21%	5	" <b>Gibson</b> " 1 230 1 230		700 1100 1700	1070		222		2600 3700	1075 1075 1725		. 22	2.33	044	3.36	044	222		320 520 625

(Continue)	(Continued)
CONIDITIONIEDE	Z
AID	X
BACKACER	のいりてといると
COLLED	COOLED
AID	Y

S & Z	320	399	358	250	343	225	234 478 506	343	234 478 506	1	1070	1450#	2000	2660\$	3500\$	320
(P.)	N. 00	4.0	3.6	70.0	50.2* 86.0*	23%	111	en 149				284 1		56** 2	72** 3	
Refrig.	22	22	22	22	22	22	22.22	22	222			22 22		22 5	22 7.	22
	44	44		44	0.4	n n	en en	1 1	भंत ११३ भत		*	4 4	7	*		
Face Area No. (Sq. P.) Rows	6. 4.	2.25	3.66	2.25	5.6		4.06	0.110	2.2		8.16	19.0	8.16	6.01	13.0	0.5
Coil Ne. Fo	44	44	88	44	D.4	9 99	400		400			3 10		3 10	27	
Face Area (Sq. Ft.)	2.0	3.07	1.83	3.05	1.9	* ***	3.5	4 8 8 9 9 9	1.5		4.93	7.30	90	89	22	
Face (Sq.	44	- 6	- 6		- 2		- 66	1 1	- 4 4		*	7.30	10.08	14.68	19.33	1
Cend. Blower Metor No. HP	22	22	22	22	23	••	2%2	22	222		%	17.2	27	%	11/2	3
Z Z						••					-		-	-	-	
RPM	***	1140	850	1140	1125	1050	1650 1650 1100	1725	1650 1650 1100		340	625	240	645	625	1
Cendenser Blower	1600	1200	1500	1200	1650 2450	970***	1100 2000 2600	900	1100 2000 2600		3500	7700	3500	4900	2700	1
8 9			"Armstrong"					- 84			-	n n	-	64	~	
Molor HP	33	12	. Ar	3	22	22	222	22	222		*	- 0	64	60	275	,
Blower Motor No. HP		:-	Ohio							ver"	-		-	-	-	
RPM		1140	Columbus, 800 1050 800 Var.	1140	1125	1050	1650 1650 1050	1725	1650 1650 1050	in Blov	787	623	662	574	594	
Evap. Blower CFM RPM	800 1100	750		750	1505	645**	800 1250 1625	Coolpak"	800 1250 1625	"American Blower"	2000	3000	4000	9009	8000	
2	- E		Ave.,		- 0				lowmon" 8 12 1 12 16	1	-	- ~	64	24	es	
oler oltage	"General Electric" 230 1 800 230 1 1100	230	230 230	230	208/230	230	230 230 230	"Century 230 1 230 1	230 230 230 230	Mich.	30/208 20/440 208/	20/440	20/440	20/440	220/440 ndensers.	1
hase M	1	×	851 W.			3	Coolerator"	g		Detroit, Mich.	7	B B	6	10	3 2	
O ±1	2.65°	2 2 3 3 3	ě=0	atcher"	ury"	Whirlpool" 1725 T 134 1725 T 134 1725 T 134 1725 T 134 1725 T 184 175 175 175 175 175 175 175 175 175 175	2 %	E., Cedar Rapids, lowa T (2)1 1	Mich. —	Ave., De	45	10	(2)5	(2)71/4	(2)10 es weight	Pac"
Make		Forest	Pric C	Thair.	"Mercu	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	r Rap	Z	Mon A					* (2 ‡Excludes	"Clima-Pac"
Compressor RPM Make	Cooling Dept., Tyles H 3450 O	1725 1725 1725	1750 1750	N. J	Mich. — 1725 1725	Whirlpool" 1725 T 1725 T 1725 T	Co., Albion, Mich.	Cedo	/., Albion, 1725 T 1725 T 1725 T 1725 T	II Tire	1750	1750	1750	1750	1750 circuit. ‡	Ind "C
Type	Cooli	Polit	5 ==	THE HE		"RCA E E Static.	A TIT	St. S.	á	d, 81			SH	SH	7	
	ell line	Metro 30% 30%	Nationa 51 52%	38 H 48% H **Listed in ounces.	Inc., Belding, 39% H 47% H		36 40% 48%	Third St. 40% 48%	Coolerator 36 H 40% N 48% H	Standar		9 9	30	311/4	31 1/4 SH **Half in each	Indianapolis,
Cabinet Size (In.) W H D	Ce., Home Heating 31% 21% 44 31% 25% 44	Brown Products Corp., 97 - 12 Metropolitan Ave., 0H 21,000 35% 16% 30% H 1725 - 0H* 34,000 48% 26% 30% H 1725 so evelible in 3 phase.	Armstrong Furnace Co., Div. of National Union Electric Co 12:R10-21 19:000 27 251%, 51 H 1750 T 12:R10-31 35,100 33%, 27%, 52% H 1750 T	Center St., Garwood, 18 18 H 28 48% H **Listed in ounces.	20% 20% 24%	St. Joseph, Mich. — "RC, 244 4 29% H 29% 29% 29% 23 32% H Evup. **At 0.3" External Static.	Lanergam Mfg. Div. McGraw-Edison 1742 1 21,000 26 17% 36 17421 20,000 36% 26% 40% 14421 40,000 36% 26% 46% Also evaliable in 3 phase.	Corp., 401 T		American-Standard, 8111 Tireman		27.478		96		
Cabir	31 1/2 31 1/2 11 1/2 in Kilowat	18 Corp., 38% 48% are.	ze Co., D		Lord & Polmer, 29% 20% 36% 24%	9 .	iv. McGr 26 36% 36% hase.		9	iv. Am					of liquia	1853 Ludlow,
STUH	in all	A. Brown Products 201-OH 21,000 381 301-OH* 34,000 481*	Fernace 000 2	3 6		Whirlpool Corp., St. 786200-3 17,300 29%, ES7200-3 17,500 29%, Ocubie End Shaff on Evap.	Lonergan Mfg. Div. M H2A21 21,000 26 H4A21 30,000 36% H4A21 40,000 36% *Also available in 3 phase.	Century Engineering A-200 22,000 24 A-350 36,000 32	E 6	American Blower Div.,		8 8	99 00	00	10,000 108 96 †With 25 feet of liquid line.	rp., 1853
ŭ*•	24,000 36,500 oled units	21,000 24,000 vallable in	21 19,0	21,000 34,000 available	22,000 36,000 in ounces.	17,3 17,5 End Sh	21,0 30,0 40,00 ailable	ry Engin 22,000 36,000	21,000 21,000 30,000 40,000	ion B	\$3,000	78,000	106,000	156,000	210,000 †With	
Model No.	General TC24A TC37 *Air cooled	A. Bre. 201-0H 301-0H*	Armstrong Fut 42-R10-21 19,000 42-R10-31 35,100	Thatch PACII PACII	Mercury Div., MS-21 22,000 MS-41 36,000 *Listed in ounces.	Whirly R6200-3 R57200-3	Lonerg H2A21 H3A21* H4A21	A-200 A-350	McGran MH2A21 MH3A21* MH4A21	Americ	SCAB	8CA8	10DA8	15DA8	20DA8	Peerless Corp.,

AIR COOLED PACKAGED AIR CONDITIONERS (Continued)

### Care of Control Art, LeCross, Wi. — "Self-centioned air control art of the control ar	Madel No.	Capacity STUH 9 95° F		Cabinet Size (In.)	OF.1	Type	Compressor RPM A	180r Meke	-	Compressor A	Meter	ź	Evep. Blower CFM B	¥	Evap. Blower Motor No. HP	4 6	P. Cond	Condenser Blow	Blower	Cond. Blower Meter No. NP		Frop. Foce Area (Sq. Pt.)	Co.	Face Are	Coll	ž	Befrig.	M N N N N N N N N N N N N N N N N N N N
Color   Colo	7554 5554 5554 7554 10554 15554	S	D 4449K				1750 1750 1750 1750 1750	1 00000	"Self-c	in anna	ed air 220 220 220 220 220 220	nanana Sepanana	1400 2000 3000 4000 6000	966 173 978 875		3232		2700 4400 6500 8800 13,000	140		22	4.38 5.10 7.50 15	ппппп	7.26 9.75 18.7 19.50 37.40	*****	MANNA	92999	
The control Div. A. O. Seith Corp., 147 S. Indiana, P. O. For 28, Kendelse, III. — "Vermoglan"  1 20,000 28/9, 17/9 23 4 4/9, H 1753 TV 19/1 1 200 1 200 1 19/0 1 1	Round HA-223- HA-363-		Inc., 29% 29%	Dowagiac 23% 23%		1	1725 1725 1725	8W T	31/2		230		1200	\$1.000000000000000000000000000000000000		22		2200	1075		22	2 2 2	24	3.0	0.40	22		320
1 1,000 279 77 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Perma	glas Div.		Smith C.	orp. 14	vi	ndiana.	a.'	Box	×	kakee.	II.	"Perm	aglas"														
1 3.000 17 3.4 4.0 H 1721	20AF-1	18,000	26%	1714	32	x	1725	-	13%	gan	230	-	900	1550	-	* 21.	-	900	155	-	**	1.17	4	1.98	4	22	***************************************	220
### 135 S. Michigan Avv., Chicago, III. — "Stovensway"  ### 135 S. Michigan Avv., Chicago, III. — "Stovensway"  ### 135 T. Chicago, III. — "Stovensway"  ### 135 T. Chicago, III. — "Stovensway"  ### 135 T. Chicago, III. — "Therefore."  ### 135	HAC. 36AF-1	36,000 36,000	.0		43% 43%		1725	BW +	2 (2)1%		230		1200	1075		* *		1500	1075		2 2	1.5	n 4	3.36	m 40	22	******	120
State   Corp., E201 Floating Ave., Mosperth, L. I., N. Y. —"Fedders"   1100	Crase A-200 A-350	Ce., 836 22,000 36,000 me mofor or	vi i	0	e., Chi 40% 48%	0 II	188	Stow	(2)) (2)1%		230	- 70	1400	1130		22		******	1130		. %	******	1.1	******	1 1	22	490000	343
### ### ### ### ### ### ### ### ### ##	Fedde 617AB 830AB-3 Evap. B	21,500 33,000 lover & Cor	37 41%	17% 17% 20% Ower on som	28% 36% 96%		Maspet 1725 1725	-i	Z	1-7	edders 230 230		1180	1100		22	~~	***	1100			1.36	44	2.28	44	22	4.2.4	350
real Air Conditioning Corp., 4542 E. Dunham Str., Les Angeles, Calif.  1 2 4 20	South HA-2001 HA-3001	23,100 38,200		P. O. Box		Aurora	1	"He 8%	afwave 2 (2)13%		208/230		1200	1000		22		2000	1095		22	2.54	6.4	44	NN	22	5.5	380
### 1725   February Co., 1121 Jackson St., N.E., Minneapolis, Minn. — "Waterbury"  ### 1826   February Co., 1121 Jackson St., N.E., Minneapolis, Minn. — "Waterbury"  ### 1826   February Co., 1121 Jackson St., N.E., Minneapolis, Minn. — "Waterbury"  ### 1826   February Co., 1120 Jackson St., N.E., Minneapolis, Minn. — "Waterbury"  ### 1826   February St., Syracuse, N.Y.  #### 1826   February St., Syracuse, N.Y.	General RO26 RO31NF RO525A RO75 RO10 *York		30 30 40 48 48	34 34 39% 39% 74% 74%	25 27 27 30 30 30	mi		St. Lo	<	1 nn	220 220 220 220 220 220		1000 1200 3200 4200	1080 1080 650 650 600		323 2		1500 1900 4000 6000	1550 1050 550 650 600		323 2	2.8.8.9	W4444	5.2	W W 4 0 0	22222	4.652	340 720 1200 1730
Smith, Inc., 1311 Robin Rd., South, St. Petersburg, Fla. — "Royal-Aire"  2.1 20,000 35% 27% 18% 27% 18% 18% 23 H T 2 1 230  3.2 20,000 35% 27% 18% 23 H T 2 1 230  3.2 20,000 35% 22 3 3.97 2 3 3.97 2 2 3 3 3.97 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Water 2HA2 2HA4	20,000 37,000	261/4 30	Co., 1121 1614 2415	1	H (2)H	N.E., 1725 1725	Minne	apolis,	M	230 230	aterb	600 1400	1725		23		1400	1725	:-	17/	2.0	60 4	3.97	0.4	22		250
### Corp. 30% Section Appliance Corp., 44 Central Ave., Buffalo, N. Y. — "Gordonair"  SC 19,250 30% 18% 39 H T 2 1 230 1 750 1 1200 1 1 1/4 1 1200 1 1 1/5 1 1.77 4 2.25 4 22 4.3  SC 34,000 30% 26% 48% H T750 O 3 1—3 209/220 2 1090 1500 1 1/4 2 1400 1700 1 1/4 2.37 4 4.1 4 C.500 81/4  SC 34,000 312 27 63 H T750 O 3 1—3 209/220 2 1090 650 1 1/4 1 3000 530 1 1/4 2.25 4 7.0 3 22 6  SS,700 42 315 72 H 1750 T 5 1 230 1 200 650 1 1/5 1 5000 375 1 3/4 4.0 4 12.5 3 22 6  SS,700 42 315 72 H 1750 T 5 1 230 1 2000 650 1 1/5 1 5000 375 1 3/4 4.0 4 12.5 3 22 6	E. B. S PA2502-1 PA20-6 PA32-10 PA40-1	mith, Inc 20,000 32,000 40,000			Sout 18%, 23 24 24	2 IIII	Petersb		1 0000	Royal	230 230 230 230 230	1:11				55		175			2222	1.17	4004	2.5	0004	2222	E 42 80	235 235 330 370
ler Corp., 300 S. Geddes St., Syracuse, N. Y.  31,800 33% 28% 43% H 1750 O 3 1—3 208/220 2 1090 1500 1 1% 2 1400 1700 1 1% 2.37 4 4.1 4 C.500 8%  shar Co., 230 Owers Ave., Wilmington, Ohio — "Farquar"  35,700 42 35 72 H 1750 T 5 1 230 1 2000 650 1 1% 1 5000 530 1 1% 2.25 4 7.0 3 22 6  56,700 42 35 72 H 1750 T 5 1 230 1 2000 650 1 1% 1 5000 375 1 3% 4.0 4 12.5 3 22 10	Robert 2005ASC 301GASC	19,250 34,000		18% 26%	39 44	estra Erra	Ave.,	Buffal		1-7	<b>Gordon</b> 230 230/220		750	1111111		2%		1230			25.25	3.00	44	2.25	44	22	6.4.3	249
Jacob 32 Owers Ave., Wilmington, Ohio — "Farquar" 35,200 32 27 33 72 H 1750 T 5 1 230 1 2000 650 1 1/5 1 3000 530 1 1/5 2.25 4 7.0 3 22 6 56,700 42 35 72 H 1750 T 5 1 230 1 2000 650 1 1/5 1 5000 375 1 3/4 4.0 4 12.5 3 22 10	Carrie	7 Corp.	300 S.	Geddes Si	1. Syra		N. Y.	0	n	7	230/		1090	1500	-	25		1400	1700	-	1/2	2.37	4	1.4	4	C-500	8/48	800
	Farquite PAC-3 PAC-5	35,200 36,700	230 Ow	ens Ave., 27 35			0	Far	rquar"		230		1200	600		22		3000	530		2%	2.25	44	7.0	66	22	• 0	700

(Continued)
CONDITIONERS
AIR
PACKAGED
COOLED
AIR

AIR COOLED PACKAGED AIR CONDITIONERS (Continued)

Model No.	Coeling Copacity BTUH BTUH B 95° F	_	Cobinet Size (In.)	(ln.) D	- A	Compressor	essor A Make	3 2	Protter	Photos Motor	1	Evep. Blower CFM RPM	100	Blower No.	Evop. Blower Motor No. 18P	S S	Condensor Blower	768	Cond. Blower Motor No. HP		Face Area	S	Foce Area	3	1 2	Refrig.	156
Ed Fr	Ed Friedrich, Inc.,	E., 1117	1117 E. Commerce St., San Antonio, Texas	merce !	St. S	on Ant	ouio.		- "Fle	Floating	1									1							
C301A	31,500 10	231%	77"Ks	2619%	I	1775	H	~	-	230	-	1200	890	-	×	1	-	********	ī	*****	2.43	*	*****	;	22	*	340
C303A	31,500 to	231%	7711/4	26 %	I	1725	ğan.	6.3	69	220	-	1200	890	-	%	\$		*********	2	***	2.43	*	*****	:	22	******	340
C501A	53,500 10	421/4	851/4	201/2	3	1725	U	wy	-	230		2000	700	•	%	1	***************************************	Notice to the last of the last	;	Ī	76.7	*	*****	:	12	correct	775
	58,000* 421/4 851/4 291/5 81,500 421/4 851/4 291/5	421/4	85%	29%	3.5	1725				220		2850	700		23	: 1	********	**********	1.1	1	5.54	~~		1 1	12	*******	775
	units are ava	Hobie wiff	Two sizes	of dir-cod	uoo peid	Idensers.	back	10 a.u 0.u	95./80	/30% K.	£ 1																
moyer	Lumace	Co., 1300 3.	w	washington,		reeria, III.	1	Meyer				-								-	,	,					
HACH-3 34 *Same Motor.	34,000 Motor.	88	25	2 4	II	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		N 89	-7	230	1 1	1200	***************************************	1 1	22	1 1	2000	***************************************	1 1	22	3.1	44	4.1	44	22	24.0	100
Philco	į į	Tioga & C	C St. Ph	Philadelphia.		9	"Philco	0																			
A\$2081	11 19,700		18%	351/6		1725	<b>j-</b> -		-	230	900	240	1100	-	%	;	900	1100	ı	***	1.2	4	2.5	6	22	216	23
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AR4181	10 40,000	- 1		591/2		1725	-		-	230	-	1380	1080	-	2	-	2300	710	-	2	2.80	*	9.9	*	22	\$ 8 kg	46.
Perfec	Ŧ		Div. of H	Hupp Corp.,		1135 Ivanhoe	anhoe	Ed.	levelo	o 'pu	lio -	"Porfec	ction To	uckaw	9												
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PAS50	48,000	36	30	641/2	T	1725		(2)2	,	230		1700	3450	-	2.2	-	3700	1725	-	2,2	3.61	. 4	6.05	. 4	22		620
a l	meior de excepciaion	Poleton.				-																					
York HCF204		sidiary	of Borg	Warner	Corp.	. Gr	Granfley	Rd., Ye	ork, P	1	Yorkaire		Pathfinder														
AB-10	17,900	28	26.41	36	I 3	1750		141		230		909	1700		**		865	1080		1/10	1.33	40	******	**	22	verent .	230
P30F-10		36	24	69	E	1750	00	(2)1%	-	230		138	88	-	2.2		2600	801		2 %	3.06	2 60		2 00	22		45
P30F-19		36	24	67	I :	1750		(2)13/		208		1200	1100		2:		2600	1100		%	3.06	m	Speker	0	22	*******	45
*Reverse C	e Cycle Model	_	**		t	06/1		(4)17		730	-	207	6	-	2	-	7007	3	-	8	3.00	,	******	n	77	*****	6
Burnha	Burnham Corp.,	Berger	Furnace	Div. F	Fourth	& Main	in St.	Belle	Vernon	Pa.	Bei	ger &	Burnha														
VUH360	17.900				I				-	230	-	634	915	-	7/	-	1600	765	-	2	2.04	7	3.83		22	414	646
VUH380		16%	22%	765%	I:	1725	<b>1</b> - 1	18	-	230		845	825	yes ,	1%	-	1600	765	-	%	2.04	4	3.83		22	6%	707
VUH3120	0 33,500	16%	26%	76%	I	1725	- 1-	N 67	77	230/22		1275	833		23		1800	815		22	2.04	4 4	4.47	n e	22	4 12	74.
VUH3140		18%	26%	813%	x	1725	ja.	9	7	230/23	-	1480	223	-	1/2	-	2500	615	-	1,2	2.91	4	6.38	10	22	61/2	850
Typho	Typhoon Air Conditioning Co.,	nditioni		Div. of	Hupp	-	. 505	Carroll	St., 1	Irooklyn,	n, N. Y	"	Typhoon														
TAS17	18,030	261/2	16%	321/4	rı	1750		F4 F4		230		800			22		2200			٠.	-			1 1	22	******	300
	36,000 29y motor as evaporator.	291/4s	23%	431/2	I	1750	<b>-</b>	m	-	230	-	1200		-	2	-	2200	***************************************	-	3/4	*******	1	***	:	22	******	425
Iron Fi	Iron Fireman Mfa. Co		3170 W.	106th St.		Cleveland.	nd. O	Ohio -	"Iron	Firemon	1																-
PAC-175	PAC-175 21,000 30	22	18% 26%	38%				NB		230	1 1	750		1 1	22	: :	1200		1 1	22	* * *	44	*****	44	22	4% 51%	375
		4000	7	76	Bit	1	1																			-	1
22HPL 3RHPI-C	Wright Mtg. Co., 4702 22HPL 24,403 43 3RHPI-C 35,600 52	43	W. Inomas Kd., 30 32 30 37	32 37		FROGRIX, Ariz. H 1725 H 1725		2 (2)13%	- :	230		850	1035		22		2400	1050		32	3.4	64	6.2	44	22		402
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### AIR COOLED PACKAGED AIR CONDITIONERS (Continued)

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il .	22			22	2222	22 22	2 222	222 222	222 222	222 222	222 222 22	22 222 222	222 222 222	2 22 22 222	2 2 22 22 22 22	2 2 22 22 22	2 2 2 22 22 22 22 22 22 22 22 22 22 22	2 2 2 22 22 22	22 2 22 22 222	222 2 2 22 222 222	222 2 2 22 222 222	222 22 22 222 222	22 22 2 2 22 22 22 22 22 22 22 22 22 22	22 222 2 2 2 22 222 222
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on St. A	II												Nichia Ref. Uti	Con	O S Corp.	dirional T T L L	Corp. Strain	Wichial Trible Corp. Corp. St. Pet St.	Vec. Util	St. Per idition in the street of the street	Wichia a state of the state of	Wichia a Ling of Ling	Wichia Corp. A Line of the	Wichiel Ave. Util Ave. Util Ave. Util Ave. Util Ave.
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. Inc., 700	46% 34		50 N. St	50 N. St.	150 N. St. 21 21 21 22	50 N. St. 21 22 22 23 20 Monte	20 N. St. 21 21 21 20 Monfe	20 N. St. 21 22 Monfe	20 %	0 0 0	20 4 3		20 Nonto 20 Monto 20% 4 22% 4 22% 5 22 22% 6 22% 76 23%	150 N. Sr. 21 22 Monte 20 Monte 22 Monte 22 22 22 24 22 24 22 24 24 22 24 24 24	20 Monte 20 Monte 20 Monte 22%, 6 22%, 74, 23% 74, 23 74, 24 24, 23 74, 24 74, 24 74, 24 74, 24 74, 24 74, 24 74, 24 74, 24 74 74, 24 74 74 74 74 74 74 74 74 74 74 74 74 74	50 N. Sr. 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 Monte 20 Monte 20 Monte 22%, 6 22%, 6 22%, 7 200 23 24 24 24 25 25 25 25 27 26 27 26 27 26 27 26 27 26 27 27 28 27 28 27 28 2	50 N. Sr. 21 22 Monte 20 Monte 20 20 20 20 20 20 20 20 20 20 20 20 20	150 N. St. 21 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	150 N. St. 21	20 N. St. 21 21 22 22 22 23 23 24 23 24 24 24 24 24 24 24 24 24 24 24 24 24	20 N. St. 21 21 22 22 22 22 22 22 22 22 22 22 22	150 N. St. 21	150 N. St. 21
sear Works,	18,000 46		o., Inc., 2	b., fac., 2	00. inc., 25 000 30 000 34%	5. Inc., 2 00 30 00 34 00 344	n Co., Inc., 250 23,500 30 23,800 3415 36,300 3415 Mfg. Co., 2020	6. Inc., 21 00 30 00 341/ Co., 202	6. Inc., 25 000 30 000 34/5 000 34/5 000 20 000 30 000 36/6 1 Condenser	23,500 30 21 23,500 30 21 23,500 30 21 23,500 30 21 24,500 34/h, 21 24,000 30 22,4000 30 33,500 36/h, 22%, and Condenser Appliance Div., General	. inc., 250 000 000 000 000 000 000 000 000 000	00 30 34 // Condenser According to 18 // Condenser Conde	Co., 202 Co., 203 Co., 2	b., Inc., 23 000 30 000 34/y 000 34/y 000 29 000 36/y 01 Cendenser once Div.	9., Inc., 23 000 30 000 34/10 000 34/10 000 35/00 000 35/00 000 35/00 000 35/00 000 35/00 000 35/00 000 53/00 000 60 000 60 000 60 000 60 000 60 000 60 000 60 000 60	Co., 10c., 20 00 00 00 00 00 00 00 00 00 00 00 00 0	200 30 44 y 40 20 20 20 20 20 20 20 20 20 20 20 20 20	Co., 202 Co., 203 Co., 2	100 30 30 30 30 30 30 30 30 30 30 30 30 3	Co. 202 Co. 202 Co. 202 Co. 202 Condenser Condenser Condenser Condenser Condenser Condenser Condenser Condenser Co. 202 259 250 259 260 260 260 260 260 260 260 260	100 300 34/100 3	## Co., Inc., 250 N. St. Francis, Wichita 23,500 30 21 46 H H 52,800 30 21 46 H H 54,900 30 21 46 H H 64 H 54,000 30 21 46 H 64	100 34 1/10 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	100 30 30 30 30 30 30 30 30 30 30 30 30 3
1 8	402Y 24,	1	Coleman Co., Inc., 250 N. St. Francis,	Coleman Co., 6211 23,500	Coleman Co., 6211 23,500 6212 23,800 6213A 36,300	leman Co 1 23.50 2 23.80 3A 36,30	Coleman Co 6211 23,50 6212 23,80 6213A 36,30 8ryant Mfg.	Coleman Ce., 23,500 6211 23,500 6212 23,800 6213A 36,300 Bryant Mfg. C 200-556 19,000 24,556 24,000	Coleman Co., Inc., 2 6211 23,500 30 6212 23,800 30 6213 36,300 341 8 Bryant Mfg. Co., 201 700-556 19,000 29 64-556 24,000 30 64-556 33,500 361 Fupporator and Condenser	Coleman Co 6211 23.50 6212 23.80 6213A 36,30 87yant Mfg. 800-556 21,00 10-556 33,50 10-60-0 Applie	Coleman Co., 23,500 2312 23,500 2312 23,500 2312 23,500 2312 23,500 20.556 19,000 20.556 33,500 20.5	Coleman Co., inc., 250 6212 23,500 30 6213 23,800 34/ <sub>3</sub> 6213A 36,300 34/ <sub>3</sub> Bryant Mfg. Co., 2020 03.55 19,000 29 24.55 24,000 30 30.55 33,500 36/ <sub>3</sub> *Eupparator and Condenser Defco Appliance Div., 600.22 00.2A 20,500 29- <sup>3</sup> / <sub>3</sub> 00.3A 30,500 32- <sup>3</sup> / <sub>3</sub> *Uses Evaporator Blower Motor	Coleman Co., Inc., 250 N. St. Francis, Wichita, Kans. — 1211 23,500 30 21 46 H 1725 BW 212 23,500 30 21 46 H 1725 FV 6134 36,300 34½ 21 46 H 1725 T 6134 36,300 34½ 20.21 46 H 1725 T 74.56 24,000 34 20.42 20.40 1725 T 14.56 24,000 30 22 39½ H 1725 FV FW Properties and Condenser and	Coleman Co., 23,500 6211 23,500 62212 23,500 62212 24,300 524,536 24,000 524,536 24,000 524,536 24,000 524,536 24,000 524,536 24,000 524,536 52,530 524,530 524,530 525,530 525,530 525,530	Colemen Co., Inc., 231, 23, 500 24, 22, 500 24, 254 24, 554 20, 555 24, 556 24, 556 24, 556 24, 556 24, 556 24, 556 24, 556 24, 556 24, 556 24, 556 24, 556 20, 254 24, 556 20, 254 24, 556 20, 254 24, 556 20, 254 24, 556 20, 254 24, 556 20, 254 24, 556 20, 254 24, 556 25, 256 26, 256 26, 256 27, 256 28	leman Co 2 23.80 2 23.80 2 23.80 2 23.80 2 23.80 256 24,00 256 24,00 256 33,50 257 20,50 25 Exporter ernational 07 23,50 06 available is stringhous	Coleman Co., Inc., 250 N. St. Francis, Wichites, Kans. — "Polar Pak"  6211 23,500 30 21 46 H 1725 F (211 1 230  6213 36,300 34/5 21 46 H 1725 F (211 1 230  62134 36,300 34/5 29/4 H 1725 F (211/4 1 230  620-556 19,000 36 22 39/4 46 H 1725 F (211/4 1 230  620-556 24,000 36 40 22 4 46 H 1725 F (211/4 1 230  620-556 19,000 36/4 229/4 46 H 1725 F (211/4 1 230  620-556 24,000 36/4 229/4 46 H 1725 F (211/4 1 230  620-556 23,500 36/4 229/4 46 H 1725 F (211/4 Ave., Rochester, N. Y.  COU-2A 20,050 29/3/4 24 46/4 H 1728 F (211/4 Ave., Rochester, N. Y.  COU-3A 30,500 32 24 46/4 H 1728 F (211/4 Ave., Rochester, N. Y.  International Heater Co., 101 Park Ave., Utica, N. Y. — "International of Ut  A5305 33,500 60 22 34/5 H 1725 F (211/4 Ave.)  A5305 30,500 60 22 34/5 H 1725 F (211/4 Ave.)  A5306 44100 50 22 34/5 H 1725 F (211/4 Ave.)  A5307 23,500 60 22 34/5 H 1725 F (211/4 Ave.)  A5308 4510 crellole in 3 phase.  A5406 Conditioning Div., P. O. Box 510, Staunton, Ru-401A 34,000 30 23 54 5H 1750 O 3 1 230	Coleman Co., Inc., 250 N. St. Francis, Wichita, Kans. — 231 23,500 30 21 46 H 1725 8W 212 23,500 30 21 46 H 1725 8W 2013A 36,300 34½ 21 54½ H 1725 T 18,505 24,000 30 20 40 H 1725 T 18,505 24,000 30 20 40 H 1725 T 18,505 24,000 30 20 40 H 1725 T 18,505 24,000 30 40 20 40 H 1725 T 18,505 24,000 30 40 22 40 H 1725 T 18,505 24,000 30 40 22 40 H 1725 T 18,505 20,500 32 40 H 1725 T 18,505 20,000 32 40 H 1725 T 19,00,32A 30,500 32 44 46½ H 1728 T 19,00,32A 30,500 32 24 46½ H 1728 T 19,00,32A 30,500 32 24 46½ H 1728 T 18,000 30 32 34½ H 1725 T 18,505 20,500 30 32 34½ H 1725 T 18,505 30,500 30 32 34½ H 1725 C 18,505 30,500 30 22 34½ H 1725 C 18,505 30,500 30 22 34½ H 1725 C 18,505 30 30 23 34½ H 1725 C 18,505 30 30 23 34½ H 1725 C 18,505 30 30 30 23 34½ H 1725 C 18,505 30 30 30 23 34½ H 1725 C 18,505 30 30 30 23 34½ H 1725 C 18,505 30 30 30 23 34½ H 1725 C 18,505 30 30 30 23 34½ H 1725 C 18,505 30 30 30 23 34½ H 1725 C 18,505 30 30 30 23 34½ H 1725 C 18,505 30 30 30 23 34½ H 1725 C 18,505 30 30 30 23 34½ H 1725 C 18,505 30 30 30 30 30 30 30 30 30 30 30 30 30	ileman Co., 23,500, 23, 23,800, 23, 23,800, 25, 23,800, 25, 23,800, 25, 24,000	ileman Co  23, 300  24, 32, 300  25, 300  25, 300  25, 24,000  27, 20,300  28, 20,300  28, 20,300  29, 20,300  20, 30	Coleman Co., 6211 23,500 6212 23,800 6213 23,800 6213 23,800 6213 24,300 30,556 19,000 90,256 33,500 90,224 33,500 90,224 30,500 90,224 30,500 90,224 30,500 90,224 30,500 90,224 30,500 90,224 30,500 90,224 30,500 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 36,000 90,225 90,000	Coleman Co 6211 23,50 6212 23,50 6212 23,50 6212 23,50 6212 20,55 62 19,500 20,55 62,50 20,55 62,50 20,02 20	Coleman Co., 6211 23,500 6212 23,800 6212 23,800 6213 24,350 24,556 24,000 30,526 33,500 76,922 30,922 30,9	Coleman Co., Inc., 250 N. St. Francis, Wichited 6211 23,500 30 21 46 H 6212 23,500 30 21 46 H 6213 3,500 30 22 20% 29% H 24-556 24,000 30 22 20% 23% H 62-556 24,000 30 22 34% H 62-556 24,000 30 22 4 46% H 62-556 24,000 30 29% 23 32 H 62-556 24,000 30 22 34% H 62-556 24,000 30 23 36 H 62-556 24,000 30 23 36 H 62-556 24,000 30 30 20% 20% 20% 45% H 62-556 24% H 62-556

### AIR COOLED CONDENSING UNITS

		Cooling																Condenser	Ner			Evep. C.	oil & Blor	10.0	
4	lodel No.	BTUH BTUH	*	Cobinet	Size (In.)	Q	Type	RPM	Make	S €	Phote Phote	Veltage	No.	Cond. Blower CFM	RPM	Ne.	wer Motor	Face Area (Sq. Ft.)	No.	Refrig.	Up	Flow	Heriz	Blower Comb.	Cond
-	Cool-Err	ool-Erre, Inc.,	20080	James	Courens	Highw	ray. De	etroit,	Mich.			*													
-	1RA2	22,500	34	24	4.2	3%6	I	1725	1	2		230		1750	*******	-	3%	4.5	9	22	>	>	>	>	410
-	RA3.	35,300	34	24	4.	3%	I	1725	_	3	_	230		2600	*******	-	1/2	4.9	6	22	>	>	>	>	4
-	RA5"	59,100	411/		40	2	I	1725	_	2	_	230		4200	*******	-	1/2	8.3	*	22	>	>	>	>	62
-	P201	22,500	30		1/4 30	0	I	1725	-		-	230	-	1750	530		1/6	4.5	m	22	>	>	>	>	26
-	P301*	35,300	30		33 1/4 30	0	I	1725	-			230	_	2600	710	-	3%	6.4	9	22	>	>	>	>	29
-	P501*	59,100	36		36	10	I	1725	1		1	230	-	4200	970	-	%	8.3	4	22	>	>	>	>	4.5
	*Also availe	ilable in 3 p	phase.																						

AIR COOLED CONDENSING UNITS (Continued)

AIK	COOLED	CONF	CONDENSING	- 1	UNITS (Continued)	(penu																	
-	Cooling														1	Condenser	nser			Evep. Coil & Blown Available	A Blower	170	13
Model No.	BTUH 9 95° F	*	Cabinet Size (In.)	(Im.)	Type	Compresso	Make	200	Compressor A Phose	Motor	No.	Cond. Blow	W RPM	No.	Blower Meter	Fece Area (Sq. Ft.)	E E	Pefrig.	3,0	Pleas	Heriz.		Į.
Armsti	Armstrong Furno		Div. of National	lational	Union E	lectric	Corp., 851	*	3rd Ave.,	Columbu	s. Ohio	Arm -	nstrong"										
42-21	19,000	27	251/4	20		1750		~ ~		230		1500	825		9/1	3.5	n •	22	>	>	>	>	205
41-33	33,540	40	281/2	28 28	x	1750			- 0	108/220		2550	530		22	5.6	9 4	22	>>	>>	>>	>>	438
41.51		631/6	23	2.8		1750	-	S.	-	230	2	2500 eo.	250	~	1/3 sq.	8.77	*	22	>		>	>	740
Also dy	midDie im 2																						1
Parce	E.	ů			St., Har	Harlingen, T	Texas -	ack															
PAR316*	36,800	1 2	77	40%	E	1725		n wn	- 6	208/220	19	4000	265	163	22	4.0		22	11	11			346
PAR67**		****	***	***************************************	1	***************************************	:		***************************************	***************************************	208	7800	420	46	%	•	4	12 or	-				260
*Also @	*Alse available in 3	phase.	Air co	caoled condenser.	enser. Does	net include	cabinets	or compre	BESOF.														
Westin	Westinghouse El	Electric C	Corp., Air	Condition	ing	Div. P. O.	Box 510.	9, Staut	ston, Ve	'a "We	estingho	"esuoi											1
AU-301A	,	31%	N	31%	I	1725	1	2		230	-	1800	900	-	*	5.7	2	22	>	>	>	>	230
AU-401A	32,000	34 %	27 1/6	31%	z 3	1725	<b>-</b> 0	0 0	77	0/204/220		2350	800		22.2	7.0	~ e	22	>>	>>	>>	>>	330
-			707	. 8						30/208/							, ,	: :	> 1			> '	8
AU-802A	74,500	51 1/2	30%	30	E H	1730	00	71/2 3	200	208/220/440	N 64	1800	650			13.4	2 60	22	>	> !	> !	>>	200
Therm-Air	Air Mfg.	Co., 1000	0 N. Division	tion St.,	Poekskill,	II. N. Y.	- "Wed	thertro															1
A1R2	24,600	38	26	38	I	1750		**	20	9/220/230	-	2000	*******	-	2		4	22	>	Anna	>	>	stroom
AIRS	36,000	38	26	38	I :	1750		01	20	8/220/230		3000	*******		\$	******	*	22	>	****	>	>	******
AIRTI	90,100	25	77	2 15	E SH	1750		71%	200	8/220/440		3000	******		*_	*******		22	>	****	>>	>>	******
ATRIO	118,000	3	34	9	3	1750		10	20	8/220/440	2	0,000	******		11%	******		22			>>	>>	******
AIRIS		3 3	57	30	3 3	1750	00	(2)71/2	2 5	208/220/440	00	14,000			~ 6	*******		22	******	2000	****	>>	***************************************
*Two Sels.	**	5	,	2		2		2112		Des (2000 (2)		200'4	1		,	Attack			ı	1		>	******
Sequoja	12	1090	Britten A	Ave., San	Carlos,	Calif	9																
J8200HT	23,200	333%	30	241/3	I I	*********		~	77	230/220	00	***********	1550	~ ~	1/10	4.12	* *	22	>>	>>	>>	>>	
ZR500	56,300	4.5	28	33%	SH	*********	· u			0/208/220	101	6160	1725	101	2%	6.3		12	>>	>>	>>	>>	
Payne	Co Lo Pi	Puente, C	Calif "I	"Payne"																			1
	30,500		26%	371/3	SH	1750	0			230	-	2000	580	-	%	4.95		7	>	>	>	>	454
	40,800	373/4	26 %	43 1/4	HS	1750	0	8		230	-	3000	47.5	-	%	6.72	6	12	>	>	>	>	280
	51,000		26%	37%	E 5	1750	00	21%		230	- 0	3200	475		%.	12.07	m r		>	>	>>	>>	621
*Also ava	*Also available in 3 ph	Pas	81100		5	200	)			000 /000		-					,			2000	>	>	200
	Williamson Co., 3	3500 M	adison Rd.,	. Cincinnati,	nati, Ohio	1	"Wetherma	natic"															1
_		48	33		x	1750		2 1		230	_	2200	900	-	%	6.15	24	22	>	>	>	>	380
		4 4 8 4	33	211/2	x	1750		0 0		230		3800	875		22	6.15	N 6	22	>>	>>	>>	>>	380
6121-04*	48,000	52	33	29	H	1750	· U			230		2000	850	-	2%	6.15	. 4	121	>>	>>	>>	>>	630
		53	30	36	= 3	1750		5		230	~	3200	875	21	2:	10.3	e .	22	>	>	>	>	000
		67	32	3972	E HS	1750		10 3		08/270	7 7	4680	850	N 64	~ -	15	, 4	22		1 1	>>	>>	1150
	*Also available in 3 ph	phase.																					
Bryont	Mfa. Co	2020	Montcolm	St., Indic	anapolis.	Ind. –	"Bryant"																1
20.530	21.000	221/2			SH	1725				230	-	1765	1100		1/12	10.4	-	C-500	>	>	>	>	320
	30,500	36	24716	323/6	3	1725			6	230		2350	1100		3:	4.6		C-500	>	>	>	>	330
30-560	32,200	30%%	2 12	351/4	3 5	1725	00		77	230		1700	525		22	5.0	N 4	12 C-500	>>	>>	>>	>>	365
	42,000	36%	56	4511/4	HS	1725			7	230		2000	550		%	6.0		12	>	>	·>	·>	525
	54,000	36%	26	45'%	H H	1725			7	230		3900	420		**	0.0		0.500	>	****	>>	>>	265

	(Continued)
011101111111111111111111111111111111111	CONDENSING
	COOLED
	X

	-			-																			-
	Cooling													3	Cond.	Condenser	Ē			Evap. Coll Avai	vap. Coil & Blower Available	Coil &	(B.)
Medel No.	BYUH @ 95° F	W Ca	Cabinet Size (In.) H	O Cul	Type	Compressor	Make	±	Phase	Compressor Motor Phase Voltage	No.	Cond. Blower CFM	RPM RPM	Blowe No.	r Melor HP	Face Area (Sq. Ft.)	No.	Refrig.	Flow	Flow	Horiz.	Blower Comb.	Cond
Thatch	<b>Chatcher Furnace</b>	Co.	Center St.,	Garwood,	ż	J "Thatel	itcher"																
AC31* AC51*	ACS1* 35,300 3 ACS1* 60,000 4 *Also available in 3 phase.	36 41 ½ hase.	24 28	53 %	II	1725	p= p=	rr		230		3500			22	6.36	44	22	>>	>>	>>	>>	590
F5 Air	F5 Air Conditioning Corp.,	ing Corp.	., 1815 5.	. Maybelle,		Tulsa, Okla.	- "Fe	Indaire	11														-
30-22-1		331/2 **	371/2	***************************************	I	*********	-	2	-	220	-	2400	1140	-	3/6	3.8	90	22	*****	i	*****	****	380
45-22-10	34,000	33 1/4 **	90	*********	I			0 4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	220		3250	1140		%:	5.7	47 4	22	***	-	*****	****	410
75-12-1		900	40	Annual	E HS	**************************************	- 0	0 10		220		5280	1140		2/2	10.4	n 40	12	4444	****		***	595
112.5-22-3	9	38.*	57		3 3		v	7 1/2	en en	220		7200	1140		22.5	12.6	10 10	22	1				720
*Also an	ralable in 3	phase.	. Diameter	Jo.																			
American	on Furnace	Co.	00 Ham	1300 Hampton Ave.,	St.	Louis, Mo.	"	AFCO (	Comfortmaker	maker"													
2A1	22,000	277/8	233/4	26%	I	1750	-		-	230	-	2000	1050	-	1/10	4.2	2	22	>	>	>	>.	******
34.	34,000	321/2	263/4	321/2	II	1750		m d		230		3200	800		2 2	10.2	m e	22	>>	>>	>>	>>	
5A*1	000'09	37	34	37	I	1750	-	1 10	-	230	-	4400	788	-	2.5	10.0	0 00	22	>>	>>	>>	>>	
75A*	84.500	41 5%	43	41%	I	1750	j.	(1)2	-	230	-	90069	700	-	%	11.25	4	22	>	>	>	>	
*Also ava	*Also available in 3 phase.	37 hase.	34	37	I	1750	<b>!</b> -	(2)5	-	230	7	8800	700	7	2	20.0	60	22	>	>	>	>	***************************************
Interna	International Heater Co	ů	101 Park Ave.	Ave. U	Utica, N.	۲. ۲	"Interna	ational	of Utica"	.,6													
AR206	23,500	28	07	28	I	1725		2	-	230	-	2800	720	-	1/6	4.0	2	22	****	****	>	>	312
AR256	26,500	32	48	32	I	1725	-	21/2		230		3500	720		%	80 e	20	22	****		>	>	296
ABA57*	36,000	32	3 5	32	I 1	1725		m ×		230		3200	720		22	, iv	ro ∢	22	****	****	>>	>>	420
*Also ava	*Also available in 3 ph	phase.		1	:																		
Mayhower	ver Air-Co	Air-Conditioners,	Inc	Duluth A	Ave. &	E. Seventh	rh St.,	St. Po	aul , Min	a "Livie	"Living-Air"												
AAC-2	24,000	27	611/2	28	I	Anneanny	-	2	7	230/220	-	800		-	3/4	01	4	22	2444	***			656
AAC-3	36,000	30	30	28	II		jer jer	m ~	77	230/220		1200	530		22	N 4	4 4	22	>	1>	!>		264
300RP	35,300	30	30	28	x:		- >	0 4	7:	230/220		******	710		14.	~	4	22	>>	>>	>>	1	292
The state of the s	27,100	300	9	34	. 12	***************************************	-		7	062/022			040	-	7.3				>	>	>	***	1
MOSTINGS	22 500	22 500 30 30	•	Mastings,	Ε,	ep Hos	ostings T		-	230	-		1725	-	77	23×14x3		22	>			>	225
CO.3	35,300	30	3 6	30	I		, po	0	-	230	-		1725	. 1	2%	23x20x3*		22	>>	1	****	>>	270
·Two of s	59,100 same.	36	35	36	I		<b>i</b>	10	_	230	-	*******	1725	:	2	30x20x4	. %	22	>	*****	****	>	400
C. A. O	Mfa.	Co., Elvria, Ohio	a. Ohio	"Luxaire"	ire"																		
			32	26	SH	1750	*	2	-	230	-	1400	710	-	%	4.5	00	12	>		>	****	505
CA-52*	36,800	7 28	34 1/2	26	rz	1725		rs 40		230	- 2	3420	0//0		% %	0 00	2 62	22	>>	1	>>	****	000
*Also ava	*Also available in 3 phase.	dse.																					
.0	Ö	Inc.,	sai	Wyson St.,	2	ie, Ind	Ma	arvair															
A4022	24,600	3:	28	333%	I	1725	j= #	ex e		220		2400	360		22	3.75	e 4	22	>>	>>	>>	>>	450
A4062*	60.800	44	28	413%	C I	1725	-	2 117		220		4000	450	-	2%	7.5	9	22	>>	>>	>>	>>	200
*Also avai	*Also available in 3 phase.	use.																					
Mueller	U	Div.	Worthing	gton Cor	p., 200	of Worthington Corp., 2005 W. Oklah	ahoma	Ave.	Milwan	Milwaukee, Wis	3	veller Clin	Climatrol"										
908-1-51*		52	381/2	27	HS	1750	0	ws	-	230	24	2500	Vor.	1	1	9.2	0	22	>	>	>	>	755
908-1-73	92,000	67	411/4	31 1/2	HS 1	1750	0 -	71/2	e -	230	es -	14.50	Var.		11/2	12.5	in e	22	>>	1>	>>	>>	275
918-21	35.700	24	373/0	28	EI	1750	- 5-	4 50		230		3200	1075		1/2	8.75	2 64	22	>>	>>	>>	>>	375
918-51	57,000	34	261/6	48	×	1750	į į	2	-	230		4600	1075	2	1/4	10.4	en	22	>	>	>	>	910
*Also avai	*Also available in 3 phase	.056																					

_	Capacity	•												0	ond.	3						7 10
Madel No.	BTUH 9 95° F	\$ ≥	Cabinet Size (In.)	(w.)	Type	Compresso	Make	Ŧ	Phase	Velinge	ź	Cond. Blower CFM	KPM.	£ .	Blower Motor le. HP	(Sq. Fr.) Re	No.	Refrig.	Flew	Flew	Herit.	Blower Cemb.
-	- 1	2	arshallto	wn, low	1 0.	"Lennox"																
HSA2-201		301%	221%	33 1/4	ā 3	1725	*	2 2 2 2 1 4 1 4 1 4 1	- 6	230		1975	1150		22	3.75	0 0	3 53	>>	>	>>	>>
-	114,000 86	80"Fe	39%	36%	SE	1725	U	101		208/220	-	8900	709	-		17.7		22	>>	1 1	>>	>>
HSA3.301*		46.9%	24 1/4	33.1%	SH	1725	1.0	0	-	230	-	2830	466		%:	6.72		22	>	>	>	>
HSA3-401		2674	24%	33%	H 3	1725	2.0	4 4		230		3200	228		22	8.45	n •	22	>>	>>	>	>
MSA3-501*	34,000	2076	2	20 75	5 5	1728	, ,	n e		230		1150	1080		22	10.10		33	>>	>>	>>	>>
dise availa	phose																	:			>	>
100	114- P. 10AF	N.	Windles Aus	1	Samle Man	110	16-20-															
H 4110		DIN CO	men Ave.			1760				020/000		22.20	740		77	7 3 5	•		1	-		
A11-400			30		E	1750	- 6-	9 46	17	220/230	-	1670	340		23	0.50		22	>>	>>	17	>>
AU-800	84,200	7	33	52	H.	1750	υ.	71/2	. 60	220	-	9009	907	-	**	14.3	4	22	·>	>>	>>	>>
Kool Engi	Engineering Corp.		3716 Roime	mont Ave.	Chice	coso. III.	W.Ke	ool Kasele"	10,11													
			١.	30		1900	-			220		2500	1126	-	70	8 94		22	1	1	1	1
1.BA		29	2 2	30	I	1800	. for	4 17	-	270		2500	1125	-	2.2	9.15	- 2	22	>>	>>	>>	>>
Holly-General	0	Div. of	Siegler	Corp. 8	875 Arr	rovo Park	WOV.	Pasade	no. Collf	f "Holly"												
A 83.22			281%		1	1725	-	2	-	23	-	2000	1050	1	7	5.00	6	22	>	>	>	>
AR3-34-1*		18%	281/2	18%	I	1725	-	0	-	230	-	3000	1050	-	17	8.00	4	22	>	>	>	·>
AR3-42-1*	42,000 4	48 1/8	28 1/2	18%	<b>I</b>	1725	-	9	_	230	-	3500	1050	-	%	9.00	so :	22	>	>		1.
AR3-48-1*		7	28 1/2	7/81	I :	1725	- 1	* .		230	C4 (	4000	1050	~ *	*:	9.72	m 1	22	>	>	>	>
*Alse available in 3	phase	7,4	26.62	7/.01	E	17.73		n	-	730		3000	1020	,	g.	6.43		77	>	>	>	>
Henry Fu	00	Medina	a. Ohio -	- "Moncrief	rief"																	
		38		26	SH	1750	3	2	-	230	-	1400	710	-	3	4.5	**	12	>	-	>	
CA-32*		38	341/2	26	I	1725	-	m	-	230	_	2150	270	-	%	6.9		22	>		>	
CA-52° 59,800 *Also eveilable in 3	phase	9	341/2	28	I	1725	-	NO.	-	230	~	3450	900	-	%	00	0	22	>	No.	>	1
	1	1	Nonellan.	1000	13	Bear Tube	١,	Towns	'Comment	Classicia												
	5	217	271/-	8 12 C	2	2150		2 4700	-	230	-	1660			77	4 05	,	33	7	1	>	1
TA33A1*		42%	27 1/4	27.1/2	I	3450	0	3.14**	-	230	- pa	1800		-	2 2	5.07	*	22	>>	>>	>>	>>
TA40A1*	-	12%	271/4	271/2	I	3450		4.15**		230	- 1	2200	******		%	6.12	4 ,	22	>	>:	>	>
TASSA I		20%	27.74	27.12	= =	3450		A D.		230	40	3700	201112		22	10.14		22	>>	>>	>>	>>
*Also evallable in	3 pho		** Air Cool	- 50		Kilowatts.		2							2			:		>	>	>
Coleman	Company,	inc., 2	250 N. St.	Francis,	1	Wichita, Kans.	1	olar	Prince"													
6219-701	23,000 3	30%	28	26%		1725	8W	~	-	230	-	1850	1140	-	%	4.1	m	22	>	>	>	>
0.701	35,500	401/4	28	26%	I;	1725	- 1	e9 4		230	-	2700	1140		3:	0.0	es e	22	>	>	>	>
is availat	*Alsa available in 3 phase.	2/0	20,02	20/3	E	173	-	•		730	-	3030	670		2	0.00	2	77	>	>	>	>
Brown	Products C	Corp.	97.12	Metropolitan		Ave., Forest	st Hills.	I. N. Y.														
201RP*	22,500 3	30	33	30		1725			-	230	-	*********	530		%	2.25	69	22		*****	****	****
RP.	35,300	0	33	30	I	1725	1	2	_	230	-	********	710	-	1/4	3.2	e	22			1000	****
RP*	501RP* 59,100 34	9	35	36	I	1725	-	N/S	-	230	-	**********	940	-	%	4.15	4	22	****	****	****	1
Frialdaire	Div., Gene	General Motors	otors Co	rp., 300	Taylor	Corp., 300 Taylor St., Dayt	6	Ohio -	"Frigidaire"	ire"												
RW.									,													
200-21	24,800 28	28 1/6	271/4	441%	H	1725	0	# II		230	-	1850	480	-	%	4.5	6	12	>	>	>	>
300-21	39,500 21	28 1/6	27 1/4	481/6	HS	1725	0	****	-	230		2700	480	-	%	6.5	6	12	>	>	>	>
500-21*	55,650 21	28%	371/4	621/6	HS.	1725	0	***	-	230	8	4200	525	1	1/2	10.4	es	12	>	>	>	>
CARW. 750-23	86,700	28%	5619/4	541/4	HS.	1798	(			Anna thank			-									
BALL						17.63	0	****	2	208/220	2	6150	550	-	%	16.9	כיו	17	****	*****	****	>

(Continued)
UNITS
CONDENSING
COOLED
AIR

1.   2.00   2.00   1.   2.00	1,000   1,00	
1.00   1.00	1,	Cabiner size in.) Type RPM Make
1900   1900	1200   1100	rp., 391 Lyc
	120   110   120	26 <sup>1</sup> % <sub>6</sub> H 1728 T 32½ H 1728 T
1.00   1.00	1.00   1.00	with e
1	1.00   1.00	- "RCA Whirlpool"
1.00   1.00	130   130	= :
		31% H 1725 T
1300   1300	1300   1300	Corp., 3200 W. Peterson Ave., Chic
of"  200   1339   1030   104	1	H 1725 T
1	1	H 1725 T
1	1	H 1725 T
220   4290   550	or"  - "Century"  - "Cattury"  - ""Cattury"  - """  -	H 1725 T
1	1	H 1725 T
1	230   230   230   190   190   190   230   190   230   190   230	н 1725 т
1	1	1725 T
230   2400   1950   1	1 230   2400   1950	Div., McGraw-Edison Co., Albion, Mich. — "Coolerat
		277/16 H
Century	"Century"    Century"   1.50	36½ H 1725 T 1
-3   230   2   800   2   %   -3   -3   -3   -3   -3   -3   -3	-3   120   2   800   2   1/4   1   1   1   1   1   1   1   1   1	
-3 230 2 8000 2 1/6    1/4	-3	Thid St., S. E., Cedar Rapids, lowa -
-3   230   1   230   2   2   2   2   2   2   2   2   2	-3	H 1725 T
-3 230   1200   15,00	-3 230   1200   1500	1725 T
		H 1725 T
1	1 230   1 2000   1050   1 %	H 1725 T
230   2000   1050   1/6   4   4   22   V   V   V   V   V   V   V   V	220   2000   1050   1,	Mich "
230   2400   720   1   1   1   1   1   1   1   1   1	230   2400   720   1   1   1   1   1   1   1   1   1	9 H 8
.Pe. — "Capitolaire"  1	.Pe. — "Capitolaire"  1	361/2 H 1725 T
		z
1 230 1 2300 1 1 3000 1 1 1 1 1 1 1 1 230 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1   230   1   2300   1   1   1   1   230   1   2300   1   1   1   1   1   230   1   2300   1   1   1   1   230   1   2300   1   1   1   1   230   1   2300   1   230   2   2   2   2   2   2   2   2   2	National-U. S. Radiator Corp., 944 Ash St., P. O. Box 1047, Johnstown
1   230   1   3000   1   ½   8.34   3   22	1   230   1   3000   1   ½   8.34   3   22	36 H 1725 T 2
d. 1 230 1 4700 1 3/4 16.7 3 22 V 1 1 1 1 1 1 230/208/220 2 1 1550 2 1/1 3.37 3 22 V 1 1 2 230/208/220 2 1550 2 1/1 3.37 3 22 V V V V V V V V V V V V V V V V V	d. 1 230 1 4700 1 3,4 16.7 3 22 V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36 H 1725 T 3
1	1	49 H 1725 T S
1 230/208/220 2 1550 2 1/1 3.37 3 22	330,200,2	onditioning Div., Lebanon,
1—3 230/208/220 2 1550 2 1/1 3.37 4 22	-3 230/208/220 2   1550 2   1/1   2.37   4 22   1	H 1725 T
3 20/208/220 2	1—3 230/208/220 1 1550 1 1/4 3.37 3 22 7 7 7 7 7 1 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1	11
1—3 230/208/220 1 1550 1 ½ 3.37 4 22	1—3 230/208/220 1 1550 1 1/4 3.37 4 22	E
	3 208/720 2 1725 2 1/5 5.83 8 22 V	30% H 1725 T

AIR COOLED CONDENSING UNITS (Continued)

Constituting Corp., 7700 Talon Rd., Philadelphia, P. — "Estimated And"   1800 450   18	Secretar   Art Conditioning Corp. 700 Token   All.   Principals,   Pri	Considering Corp., 700 Tabor Lat.   All the classes All the control of the cont	Medel	Capacity STUH 95° F	3	Cabinet Size (In.)	(ln.) D	7.	Compresses	Make	•	Phose	Compressor Mater Phose Veltage	ź	Cond. Blower CFM	***	1	Cond. Blower Maler	Condenser Coll Face Area N (Sq. Pr.) Re	1	Paris of States	3,2	Evep. Coil & Blo- Available Down Flow Haris		Cont.	1483
A. O. Sain, Copp. 147 S. Indicate, P. O. Let 28, Kankele, H. L. "Permegiation of the property	A. O. Saith Cop., 17 S. Inflates, P. O. Br. M. Realther, H. — "Cline Title Cop., 17 S. Inflat	A. O. Saith Copp. 147 S. Inflaton. P. O. Saith Copp	2	tates Ali	Condit	ioning Co	orp., 790	15		1	2	- "Ka	oler-Aire"		100	***		3			:	,	,	,		1
A. O. Senito Corp. 147 S. Indicato, P. O. Ber ZB, Kentablee, III. — "Fernagion"  S. S	A. O. Schild Copp., 147 S. Indicate, P. O. Der 2B, Kockshieve, H. — "Vermeyler"  A. D. Schild Copp., 147 S. Indicate, P. O. Der 2B, Kockshieve, H. — "Vermeyler"  B. S.	A C Seint Corp. 14 7. Indicate, P. O. Ber 23. Kestation, III. — "Vermesjon"  See 18 18 18 18 18 18 18 18 18 18 18 18 18	3333	2.63	2648	3448	2222	- 49	1750	- <del>-</del> u	100%		230/208/220 230/208/220 208/220	~	1400 1700 7500	538 474 605		szzz	8.78 9.45 18.75		2222	>>>>	>>>>	>>>>	>>>>	102
	The control of the		rmagic	as Div. A	L. O. Sm	irh Corp.	. 147 S.	Indian		6.4	Konko	kee, III	"Perme	glas												
Fig.   Developed   Miles   M	The control of the		24AB-1	. 22,500	34	23		=		-	04	-		-	1800	740	_	*	4.48	•	22	>	>	>	*****	410
	Column   C	The control of the	36AB-	. 35,300	34	23	200	rı	1725	- 1-	P3 40		230		1500	650		22	6.30	n 4	22	>>	>>	>>	*****	434
The complete   Michael	Fig.   Developer, High. —"Climer Full-Alar"   150   1500	Fig.   Developed, Hick. — "Climer Full-Alle"   1972   1   250   1980	20AF-1	18,200	26	36%	19:	<b>x</b> :	1725	<b>-</b> 1	7%		230	-	1650	1050	, pair g	21/1	3.67	9	121	>>	·>	·>	>	265
State   Stat	15   15   15   15   15   15   15   15	State   Stat	24AF.	* 32,600	30	36%	30	EI	1725		Ne		230		2200	1030		84/18	3.67	n 4	22	>>	>>	>>	>>	300
Coat Co.   Inc.   Developler, Mich. — "Cline-Full-Aire"   13, 1   200   4   200   100	Control Co.   Inc.   Developles, Mich. — "Cline-Yelin-Alex"   1%   120   4   100   100   1   100   1   100   1   1	Coat Co.   Inc., Developic, Mich. — "Cline-Yein-Alex"   13, 1   120   140	-60AF-1	• 56,000		3	36	*	1725	-	9 49	-	230	-	4200	989		t <sub>s</sub> t	7.55	4	12	>>	>>	<b>&gt;&gt;</b>	>>	100
Care Co.,   Care Decided   Care De	Care Co.	1, 2, 2, 2, 3, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	1	4		1				- 0.0																
1, 2, 2, 2, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	2,0000   27%   27   27%   27   27%   27   27%   27   27	2,000   25	D P		Inc., Dov	-	1		WIN-AI		-										-		4			-
4,000   376, 27   475, 41   475, 4	### Grop, 187, 27 97%   17.00   1.00	### Comp. 1978, 27 978, 81 1733 1 1974 1 200 6 200 1 19 1 1940 1 200 6 200 1 19 1 1940 1 200 6 200 1 19 1 1940 1 200 6 200 1 1940 1 200 6 20 1 1940 1	17-1	20,500	34%	27	34%	I :	1725	<b>-</b> •	1%		230	4	0091	980		0/1	1076	en 0	2 2	>	>	>	>	240
Second   17%   27   27%   27   27%	Continue in 2 place.   Continue in 2 place.   Continue in 3 place.	Company   27    27	173-1	24,000	34%	27	34%	E :	1725		9%		230	4 4	1800	930		8/10	1076	P4 0	22	>	>	>	>	360
Secretaria   Sec	Second Strike   Second Strik	The Corp. 1833 Leadlow, Indicatengolis, Ind. — "Climes-Twite-Alive"  18 Corp. 1835 Leadlow, Ind. —	44.1	36,000	37.75	32	3714	2 3	1725		21174		230	• •	3400	629 428		2 3	1074**	3 69	22	>>	>>	>>	>>	730
20,000   34%   27   34%   34	1, 20,000   13   15   15   15   15   15   15   15	2.000   24%   24	04-1	900,09	37%	22	37%	I	1725	-	9	_	230		4000	625	-	2.5	1614**		22	>>	>>	>>	>>	465
1	### Corp., 1653 Ludlow, Indicatopolit, ind. — "Clime-Twine-Air"  ### Soc.	### Corp., 1653 Ludlow, Indicatopolit, Ind. — "Clime-Twine-Air"  ### Soc.	so avai	lable in 3 p	ohase.	peril:	in Square II	nches.																		
30,000 34% 27 34% H 1723 T 1% 1 320 4 1800 950 1 V/9 1076** 2 22 3 4	1	1	rloss		853 Ludi	low, Indie	anapolis,	. Ind	- "Clima		lire"															
1, 40,000   31%   27   31%   1   1   1   1   1   1   1   1   1	1	1. 45,000   31%   27   31%   11   125   1   13   1   250   4   250   13   14   15   15   15   15   15   15   15	14-1	20,500	341/4	27	341/4	I	1725	<b>(-</b> )	17%		230	4	1600	950	-	1/10	1076**	24	22	>	>	>	>	240
pp Div., Chrysler Corp., 1500 Webster St., Dayton, Ohlo Airlenge St. Corp. 2017, 27 27 27 27 27 27 27 27 27 27 27 27 27	1.    1.	1, 4, 6,000   25%   27   25%   1, 175   1   101%   1, 250   6, 4,000   633   1   10100000   1, 1000000   1, 1000000   1, 1000000   1, 1000000   1, 1000000   1, 1000000   1, 1000000   1, 1000000   1, 1000000   1, 1000000   1, 1000000   1, 1000000   1, 1000000   1, 1000000   1, 10000000   1, 10000000   1, 10000000   1, 10000000   1, 10000000   1, 10000000   1, 10000000   1, 100000000   1, 100000000   1, 100000000   1, 1000000000   1, 10000000000	13-1	24,000	34%	22	34%	T:	1725		%		230	4 .	1800	950	, m	n/a	1076	*	22	>	>	>	>	260
Part   Appendix   Part   Par	Particulate in 3 phose   Particulate in State   Particulate in 3 phose   Particulate in 3 phos	P. C. Chryster Corp., 1500 Webster St., Dayton, Oblo — "Alreamp"   1500   151		36,000	37 14	27	3774	EX	1725		21174		230		3600	628		#3	1076**	9 19	22	>>	>>	>>	>>	383
### Picker   Parties   Par	Pick   Christe Corp., 1600 Webster St., Dayton, Ohio — "Airtemp"   1800 Webster St., Dayton, Ohio — "Airtemp"   2300   1800   440   231	Pick   Chrysler Corp., 1600 Webster St., Dayron, Oblo - "Airtemp"   230   1800   440   180   4443   29   29   20   20   20   20   20   20	04.1.	900'09	371/4	27	3714	r	1725		200		230	9	4000	625	-	2.5	1614**		22	>>	>>	>>	>>	465
p Div, Chrysler Corp., 1600 Webster St., Dayron, Ohio — "Airemp"  1239, 2797, 2797, 2797, 2797, 2797, 2797, 2790 1 220 1 1600 440 1 14, 4449 3 22 22 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	p Div, Chrysler Corp. 1600 Webster St., Dayrea, Ohio — "Airemp"  23% 27% 27% 27% 27% 28% 27% 28% 27% 28% 28% 28% 28% 28% 28% 28% 28% 28% 28	Part   Chryster Corp.   1600 Webster St., Dayron, Ohio - "Airtemp"   230   1400   440   1460   441   234   235   237	so avoi	63	share.	**Listed	in Square	nches.																		
125% 22% 23% 23% 24% 24% 24% 25% 25% 25% 25% 25% 25% 25% 25% 25% 25	Style   Styl	121%   221%		Div. Chr		rp., 1600	Webste	St.		hio -	Airte	"du														
State   Stat	234 297 297 297 297 297 297 297 297 297 297	23.5 3215 3215 3715 51 3250 0 3 1 220 1 220 322 1 15 34 3 1 2 2				237%	371/2		1750	-	2	_	230		1600	440		3%	4.43	•	22	>	>	>	>	367
Style   Styl	Sight   20%   Sight	Second	*	8844400400	32%	237/2	371/2	SH	3500	0			230		2250	525		2	5.62	00	22	>	>	>	>	415
Second	Signature in 2 and 3 pipes.  Co., 836 S. Michigan Ave., Chicago, III. — "Sunnyland"  Signature in 2 and 3 pipes.  Co., 836 S. Michigan Ave., Chicago, III. — "Sunnyland"  Signature in 2 and 3 pipes.  Signature in 3 and 3 an	State   Stat	4:	# # # # # # # # # # # # # # # # # # #	32%	20%	37.7%	E 3	1730	00	P) ¥		230		2770	430	- 00	2 %	7.7	N P	1.3	>>	>>	>>	>>	293
Co., 33.6   Michigan Ave., Chicago, III. — 'Sumayland''   San	Co., 336 S. Michigan Ave., Chicago, III. — "Summyland"   1750 680   1 % 4.33   22 % % % % % % % % % % % % % % % % %	Co. 336 S. Michigan Ave., Chicago, III. — "Sunayland"  Co. 336 S. Michigan Ave., Chicago, III. — "Sunayland"  1, 500 256 S. Michigan Ave., Chicago, III. — "Sunayland"  2, 500 26 S. Michigan Ave., Chicago, III. — "Sunayland"  2, 500 276 S. Michigan Ave., Chicago, III. — "Sunayland"  2, 500 276 S. Michigan Ave., Chicago, III. — "Sunayland"  2, 500 276 S. Michigan Ave., Chicago, III. — "Sunayland"  2, 500 276 S. Michigan Ave., Chicago, III. — "Sunayland"  2, 500 276 S. Michigan Ave., Chicago, III. — "Sunayland"  2, 500 276 S. Michigan Ave., Magneth, L. I., N. Y. — "Fedders"  2, 500 276 S. Michigan Ave., Magneth, L. I., N. Y. — "Fedders"  2, 500 276 S. Michigan Ave., Magneth, L. I., N. Y. — "Fedders"  2, 500 276 S. Michigan Ave., Magneth, L. I., N. Y. — "Fedders"  2, 500 276 S. Michigan Ave., Magneth, L. I., N. Y. — "Fedders"  3, 500 2776 S. Michigan Ave., Magneth, L. I., N. Y. — "Fedders"  3, 500 2776 S. Michigan Ave., Magneth, L. I., N. Y. — "Fedders"  3, 500 2776 S. Michigan Ave., Magneth, L. I., N. Y. — "Fedders"  3, 500 2776 S. Michigan Ave., Magneth, L. I., N. Y. — "Fedders"  3, 500 2776 S. Michigan Ave., Magneth, L. I., N. Y. — "Fedders"  3, 500 2776 S. Michigan Ave., Magnethy, Co., 1121 Jackhon St., N. E., Minneapolis, Minn. — "Warerbury"  3, 500 2776 S. Michigan Ave., Minneapolis, Minn. — "Warerbury"  3, 50, 500 2776 S. Michigan Ave., Minneapolis, Minn. — "Warerbury"  3, 50, 500 2776 S. Michigan Ave., Minneapolis, Minn. — "Warerbury"  3, 50, 500 2776 S. Michigan Ave., Minneapolis, Minn. — "Warerbury"  3, 50, 500 2776 S. Michigan Ave., Minneapolis, Minn. — "Warerbury"  3, 50, 500 2776 S. Michigan Ave., Minneapolis, Minn. — "Warerbury"  3, 50, 500 2776 S. Michigan Ave., Minneapolis, Minn. — "Warerbury"  3, 50, 500 2776 S. Michigan Ave., Minneapolis, Minn. — "Warerbury"  3, 50, 500 2776 S. Michigan Ave., Minneapolis, Minn. — "Warerbury"  3, 50, 500 2776 S. Michigan Ave., Minneapolis, Minn. — "Warerbury"  3, 50, 500 2776 S. Michigan Ave., Minneapolis, Minn. — "Warerbury"  3, 50, 500 2776 S. Michigan Ave., Minn			5.0 28	63	28	E HS	1750	0	71%	. ~	220	. 04	9009	521			13.0	. 4	2 2	>>	> :	>>	>>	1 20
Co., 836 S. Michigan Ave., Chicago, III. — "Sunnyland"  21,330 26 37/4 36 5 5H 1750 NW 2 1 2300,208/220 1 1750 660 1 1/6 4.33 3 12	Co., 836 S. Michigan Ave., Chicago, III. — "Sunmyland"   21,530 26 31	Co., 836 S. Michigan Ave., Chicago, III. — "Sunnyland"  21,530 26 37% 36 514 1750 kW 2 1 3 200/2001/220 1 1750 660 1 % 6.74 3 3 12	o vaile		nd 3 phase.		. Also ave	2	63																	
21,350 26 331% 36 514 1730 EW 2 1 320/2020/202 1 1750 680 1 1% 4.33 3 12	21,530 26 33\text{3}	21,330 26 331% 36 514 1750 EW 2 1 320/201/20 1 1750 680 1 1% 4.33 3 12		836 5	Michiga	Ave.	Chicago.	=	"Sunnyla	"pu																
34,300 29 37% 36 5H 1750 8W 3 1-3 20/20i/20 1 2500 600 1 % 6.74 3 1 2 2	34,300 29 37% 36 SH 1730 EW 5 1—3 230/26/220 1 2550 660 1 % 6,74 3 22	34,300 39 37% 36 31% 1750 8W 3 1-3 230/203/220 1 2500 600 1 % 6.74 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		21 430	3.6	3317	3.6		1740	W.W.	•		230	-	1750	480		77	4.33	64	13	1	1	/*		476
24,600 30 47% 51% 51% 51 1750 BW 5 1—3 230/2302 2 1 1 1 13.3 3 12	34,500 30 47% 24% 24% 24% 24% 24% 24% 24% 24% 24% 24	34,400 30 47% 51% 51% 514 1750 8W 5 1—3 230/220 2 3750 645 1 1 13.3 3 1 12		34,300	20	37 1/2	36	SH	1750	BW	1 173		330/208/220	-	2500	900	-	2	6.74	9	22	>	>	>>		200
25,500 44% 26 312 H 1750 T 2 1—3 220/220 2	25,500 44% 26 32 H 1750 T 2 1—3 220/220 2	25,500 44½ 26 32 H 1750 T 2 1—3 220/220 2		54,600	30	47 1/2	51 1/2	HS	1750	M M	49		230/208/220	-	3750	645	_		13.3	0	12	>	>	>	*****	908
38,500 44% 26 32 H 1750 T 3 1—3 230/220 Z 4400 H % 32 2 V V V V 221,50 36 32 42 SH 1750 T 3 1—3 230/220 I W M	39,500 44% 26 32 H 1730 T 3 I 3 230/220 I 4400 H 1 1 W 2 2 V V V V 2 2 1 2 2 2 V V V V 2 2 1 2 2 2 0 V V V V 2 2 1 2 2 2 0 V V V V 2 2 1 2 2 2 0 V V V V V 2 2 1 2 2 2 0 V V V V V V V 2 2 2 2 2 2 2 0 V V V V	35,000 44% 26 32 H 1750 T 3 H 200/220 I 4400 H 1 1 1 1 1 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0		25,500	44%	26	32	<b>x</b> :	1750	<b>j</b> 1	2		230/220	P+ 1	*******	*******	3	8 0 0 0 0 0	0 0 0 0 0	F4 (	22	>	>	>		445
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Cobinet Size (In.) Type MI	Corp. A	77.17.2	ott Engine	24 33	902 W. T	34%	371/2	*	-	22%		22 1/2	22 1/2	24	24	24	24 24 24	30	30	30	30	30	30	30	37 2	37 2	37 2	
Capting Capacity BTUH © 95° F	American-Standard Corp	AC-2A* 21,600 AC-3A* 32,500 AC-5A* 60,000 *Also available in 3 phase.	Cond-Air Div. Elliott Engineering	24,000 34,800 60,000	fa. Co. 2	24,500	4RC.1* 48,900 3 5RC.1* 58,440 4 *Also available in 3 phase.	York Corp., Subsidiary	***************************************	0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	# 0 8 8 8 8 8 8 8 8 9 9 9 9	# x x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		***************************************			\$0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0			***************************************					e as air-wate
Model No.	American	AC-2A* AC-3A* AC-5A*	Cond-Air	AC20HS AC30HS AC50HS	Wright M	2RC-1* 24,500 341/2 3AC-1* 35,400 42	5RC.1*	York Cor	A31M12	A31M22 A31L22	A51M12*	A51112*	A51M22*	A71M12*	A71112*	A71M22*	A71122* A101M12* A101M22* A101L22*	AISINIZ.	A151M22*	A151VL22*	A201M12*	A201VL12*	A201M22*	A201VL22*	A301M12*	A301VL12*	A301M22*	*Also available as air-water cooled

AIR COOLED CONDENSING UNITS (Continued)

		200	632	632	756	1045	1455	3230		205	438	240		567	685	780		30	425	325	989	920			900	775	1470	2800	2870		400	900	1	345
		>>>	>	>	>	>				>	>>	>		****	*****	****		17	>>	17	> :	> :			>>	.>	>>	·>	>>		>	>>		>>>
Analishis Peru Hori	L	>>>	>	>	>	, >				>	>>	>		-	oraș.	-		17	>>	1>	> !	>			>>	>	>				>	>>		>>>.
A Marie			****	2000	****	1	***			>	>>	****		***	****	****		17	>>	17		>			****				11		>	>>		>>>
S.E		111	-		****		****	1		>	>>	>		*****	1000			13	>>	1>	> 1	> !			>>	>	> :		1		>	>>		>>>
P. C.		222	22	22	22	22	22	22		22	22	22		22	22	22		15	12	22	1 1	2 2			22	22	2 22	22	22		22	22		222
, 4]		1 1 1	47	45	45	49	10	45			n 4 :	4		84	8	24		~ ~		es es	4				••	8	0 1	so.	~		0	40		
Condenser Coll Fees Area (Sq. Pr.) Bu			***************************************	-	Name of Street,	*****	*****	******		3.66	5.6	1.77		4.66	40	4.7		8.34	8.34	8.34	13.22	13.22			3.75	7.88	13.0	26.0	26.0		anouse.	1 1		3.83
Cond. Blower Maler No. HP		222	-		*****	Years	and the same of	-	-Maric"	2	2.5	% eg.		*	%	*		23	2.5	22	*	* 2			23	-	2 2	11%	25 z		*	22		222
ª ź			-	-	-	-	24	8	"Air-o			*		-	-	-			-		-							7	~ ~		:	: :		
# BPA			******	***	*****	*****	der out	******	Ohio -	825	550	230		420	510	470		765	9	850	373	973				*******	*******				*****	******		765 815 615
Cand. Blowse CFM		2250 2950 5100	Sources	********	*******	webssess	-	***********	lumbus, C	1500	2330	7300		2400	3000	4400		3500	3400	3900	8000	9000		66	3500	2800	8600	15,000	16,100		2200	3300		1600 1800 2500
ž			-	-	**	-	2	7	S. C.					-	-	-			-		-		1	/phoon		010	4 64	*	**		:			
Voltage Voltage		208/230 208/230 308/230	208/330	208/330	208/230	208/220	208/230	208/230	V. Third A.	230	208/220	730	Conn.	220/208/	220/440	220/440		230	230	230	********	220	1	Y "	208/220	208/220	208/220	208/220	208/220		230	230	Burnham"	230/220 230/220
Campresser		777	7	7	1-2-3	1.2.3	1.2.3	1.2.3	. 051 V				Hartford,	7	7	7	ing Air	r	_	:-		m m	1	klyn, N	e e		2 00	3			7	77	Pa. 1	_77
2		00 m	*	•	45	21%	(2)5	(2)71/2	Corp	~		n	PST Ha	24	m	197	"Float	: 09	100	: 49	2	10	1	. Broo	~ 0	90 1	10.22	(2)71/2	(2)10		7	פיים	rnon,	36.25
Make			v	U	U	U	v	v	Electri		p= p	-	St., W.	**			- 50	: ==	-	: 1	- 11	υU		roll St		U	υ	o	vv		-		elle Ve	
Compresse		1750 1750 1750	1750	1750	1750	1750	1750	1750	Union	1750	1750	8	South	1750	1750	1750	nio, Te	1725	1725	1725		1725		505 Car	1750	1750	1750	1750	1750	Majestic	0000000	Quegation	St., B	1725 1725 1725
Type		rrr	3	35	H	3	SH	HS	ational	I 3	: 23	E	Inc., 179	HS.	3,	SH	in Antonio,	: 2	I	: I	= 1	F 55	- 11	i	ıı	3 3		HS.	# # #	1		I I	& Main	III
٥	1.1	553	22	22	25	7662	29%	29%	Div. of N	20				381/2	38%	39%	St., San	381/4	381/4	38%	36%	36%		dd	25%	4,4	35	15	35	on, Ind.	151/2	48 /2	Fourth	222
Cabinet Size (In.)	gdale, N.	26%	-	_	581/2				ပိ		28%		Dunham-Bush,				nmerce	31%					<u>.</u>	Div.						Huntington,		D 4	Div.	444
Cabinet	rminge	888	35	35	35	3	2	3	leating				5	26	26	25	E. Comm	30% 31	3	5 6	54	33	oure.	ပိ	24 45	52	36.0	25	56	5.		37	Furnace	75 75
3	Co. Fe	228	35	35	45	57	70	96	Aatic H	27	9	hase.	Sidian	9	40	65		30%	30%					ditionia	9 9	52	6.2	124	124			48 %	_	36
Capacity STUH 95° P	Colls	18,800	21,700	34,600	53,400	79,100	107,200	158,200	Oil-O-M	19,000	33,540	ble in 3 p	Inc., Subsidiary	31,000	43,000	71,000	rich, Inc.	31,500	35,000	53,500	81,500	101,000	n 3 phase.	Air Conditioning	37,000	90,600	121,000	177,600	242,400	Co. Inc.	24,000	36,000	1-	17,900 22,500 35,300
No del	American	SC4-36 SC4-36 SC4-36	CA-20-H	CA-30-H	CA-50-H	CA-75-H	CA-100-H	CA-130-H	Williams	RAF-2-1	RAC-3-3	*Also evailable in 3 phase.	Heat-X, I	RCU200	#CU300	RCU500	Ed Friedrich,	DRA301**	RAU301.	DRA501**	DRA751 **	DEAUTO03 101,000	*Available i				10ACCU		18ACCU 20ACCU	2		2.5	Burnham (	MAC22 MAC23

### AIR COOLED CONDENSING UNITS (Continued)

Node    BTOH   Cabine Size (In.)   D   Perfection Industries, Div. of Hupp Corp., PASIC*   35,000 30 27 42/4 PARITO*   13,200 30 27 42/4 PARITO*   13,200 30 27 43/5 10 PARITO*   13,200 36 41 26 10 PARITO*   13,200 36 41 26 10 PARITO*   13,200 36 10 PARITO*   13,200 36 10 PARITO*   10,000 62 56 35 PATITO*   110,000 62 56 35 PATITO*   17,200 ***********************************	7 W W W W W W W W W W W W W W W W W W W	Cabinet Size (In.)					3	mpressor Mc	Jor		Cond. Blower		Rinwer Mah	Face	Area No.	Refrig.	-			Blower	Cond.
Perfection Indu  PA31C* 50.000  PA31C* 35.000  IPAR31* 33.200  IPAR31* 33.200  PA33C 19.500  PA33C 195.500  PA33C 195.500  PA33C 195.500	28 30 30 30 30 30 30 30 30 30 30 30 30 30		0	Type	RPA	Make	Ŧ	Phase Voltage	- abbito	No.	CFM	RPM	No. HP	(Sq. Ft.)		-	_	Flow FI	Flow Horiz.		Cale
PA31C* 36,000 PA8170 18,200 1PA831* 33,200 1PA831* 56,000 PA130C 110,000 PA133C 195,600 PA133C 195,600 PA133C 195,600	20000	Div. of Hug	op Corp.	1135 Iv	1135 Ivanhoe Rd.,	Cleve	and, Oi	Ohio - "P	Perfection	131											
PASIC* 60,000 PARSI* 18,200 IPARSI* 56,000 PARSI 55,000 PARSI 10,000 PARSI 171,200 PARSI 171,200 PARSI 171,200		27	421/2	I	1725	-	en		230	-		725	1 1/2		~	22	1			>	365
PAR170 18,200   IPAR31* 33,200   PAR36 85,600   PA103C 110,000   PA183C 171,200   PA183C 195,600   PA183C 195,600		27	661/4	I	1725	-	45		230	2		725	2 1/3			22	>	>	>	>	455
IPAR31		17	26	I	1725	-	13%	-	230	-		950	1 1/12		9	22	>			>	235
PA83C 85,000 PA83C 85,600 PA133C 110,000 PA153C 171,200 PA283C 195,601		451/2	30	I	1725	-	es	-	230	_		800	7/1			22	>			>	320
PA83C 85,600 PA103C 110,000 PA153C 171,200 PA203C 220,000		51	36	I	1725	-	10	-	230	1		650	1 %			22	1			>	210
PA103C 110,000 PA183C 171,200 PA183C 195,600 PA203C 220,000		26	35	HS	1750	U	71/2	6	08/220	2		******	1 11/2			22	***			>	1400
PA153C 171,200 PA203C 220,001		56	35	HS	1750	U	10	3	08/220	2		******	1 2			22	4114		*****	>	1460
PA183C 195,600 PA203C 220,000			35	HS.	1750	0	1171/2	3	208/220	2	15,000	*******	2 11/2	26		22	****	*****		>	2800
PA183C 195,600 PA203C 220,000						-	171/2						(1)11	-						,	
**************************************			35	HS:	1750	0	01(1)	2	208/220	PR (	16,100	********	2 (1)2	26	12	22	****	***	****	>	2860
Why usymitted and		**124 x 56. or 62 x 112.	35 pr 62 x 112.	HS	1780	U	01(3	n	08/220	7		***	2 (2)2		14	22	:			>	2940
Philos Com Tions & C	1 4		Co Bhiladalahia		"IBAIlen"																
THE COLD	a photo		nudiannii.	2	Lunco								3							,	
				I	1725	-	2		230	_		075	1 //8	3.64	19	22	>			>	202
		23%	277/6	I	1725	-	3		230	_	1700	1075	1/8	3.64	9	22	>	>	>	>	255
				I	1725	-	es		230	_		075	1/8	4.5	0	22	>			>.	208
AC5080-10* 58,300	48%	283/4	31%	I	1725	ja-	2		230	N		075	1 (2)1/2	7.00	2	22	1			>	463
*Also available in 3 phase.	phase.																				
O. A. Sutton Corp., Inc.,	orp. In	c., 1812 W	V. Second	St., Wichita,	ichita, Kan.	In "	"obamado"	0													
RC201-2 23.100			273%	I	1720	-	2		230	_		140	1 1/4	3.6	2	22	1			>	242
RC301.2* 32,200	30	233%	27%	I	1720	-		-	230	-	1700	1140	1 1/5	3.6	3	22	>	>	>	>	256
			27%	I	1720		31/2		230	_		140	1 1/5	4.6	60	22	>			>	270
RC501-2* 60,600	787		313%	I	1720	-	100		230	2		140		7.8	60	22	>			>	465
*Also available in 3 phase.	phase.																				
Cobell Industries,	es, inc.,	Meacham Field, P.	Field, P.	O. Box	O. Box 1157, F.	Fort Wor	rh, Texas	-	Rangaire"												
			48%	SH	1750	v	3		230/220		2600	640	1 1/2	4.6	4	12	>		>	****	495
A574 47,600	351/2	26	48%	HS.	1750	U	49		30/220	-		200	1 1/2	6.1	4	12	>			*****	909
			483/4	HS	1750	U	2		30/220	_		750	1 1/2	7.6	4	12	>			*****	635
A573 37,300			483%	HS	1750	o	3	1-3 23	230/220	_		640	. 1/2	4.6	4	22	>	>		****	510
		26	483/4	SH	1750	v	4		30/220	_		200	1 1/2	6.1	4	22	>			*****	265
A575 63,200	351/2		483/4	SH	1750	v	5		30/220	800		750	1/2	7.6	4	22	>			2000	575
Meyer Furnace	Co., 1300	vi	Washington,	Peoria,	II. — "	"Meyer"															
HACRH-2 22,500	36	24	77	I	***************************************	-		7		10	1800		3/4	4.5	6	22	>			>	410
		24	17	I		-	3	7	230	12	2500		%	6.4	6	22	>	>	>	>	440
			22	I		-		7		15		*******	1/2	65.00	*	22	>			>	625
HACRP-2 22,500		33	30	I	********	<b>6</b> -		7		24		530	% ::	4.5	e	22	>			>	265
HACRP-3 35,300	30	33	30	I		_		7		24		710	7/4	6.4	0	22	>			>	290
HACRP-5 59,100		35	36	I	********	-		7		30		540	1/2	8.3	7	22	>			×	455

## FURNACE-COOLING COMBINATIONS

Net WP.		575	959	96	186
Air Filter No. Size (In.)		1x14x25	1x16x25	1x14x25	
_		1	1	5	
Refrig.		22	22	22	
Posts Roses		4	*	4	
Face Area No. Refrig. (Sq. P.) Rows No.		2.23	3.33	9.90	
Cond.		AR	AR	A.	WE
Evop. Blower Motor Io. HP		*	%	3/2	
Blows No.		-	-	-	*1
RPM		850	920	830	
Evap. Blowse CFM			1200	2000	
ž.	Alr"	-	-	-	
ilor Veltage	Fe, South Gate, Callf "Cond-Air"	220	220	220	
Phose	Callf	7	7	7	
He Com	Gate,	2	*	40)	
Meke	e, South	<b>b</b>	<b>-</b>	<b>-</b>	
Compressor RPM	Santa F	1725	1725	1725	
Type	Ic., 10608	x	H - SH	H · SH	
Fuel (Gas or Oil)	ng Co., In	50	Qua	Qes	Avenue obtained
Heating Capacity BTUH Output	* Engineeri	68,000	84,000	120,000	Antistantistant and a second
Cooling Capacity STUH	Div., Ellior	24,000	34,800	90,000	99,000
Model C	Cond-Air Div., I	AC 20 PA	AC 30 PA	AC 50 PA	EC 30 PA

FURNACE-COOLING COMBINATIONS (Continued)

Colembia 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	BTUH	Output	(Gas or	Type	Compressor	Moke	He Com	Compressor Motor Phase Voltage	Veltage	No.	Evap. Blower CFM	RPM	* 4	Blower Meter No. HP	Cand.	Foce Area (Sq. Ft.)	p. Call ea No. .) Rows	Refrig.	2	Air Filher Size (In.)	S. S. S.
S C C C C C C C C C C C C C C C C C C C	a Specialr		4925 Bradley Blvd., Chevy Chase	y Blvd.	Chevy C	hase, Md.	1	"Columbia"				100	-								
CU Sequoja	24,000	72,000	<b>3</b> 0 0	I	1725	-	PN	-	230	-	720	700	-	1/6	4	2.09	•	22	-	16x20x1	
Colegeoid	34,000	120,000	30	I	1725	-			230	e	12000	700		1/4	4	3.12		22	-	20x25x1	
equoia	900'09	100,000	8 5 8 5	I	1725	-	40	-	230	-	2000	400	-	1/2	4	6.24	6	22	*	20x25x1	
	Mfg. Co	=	n Ave., San	a Carlos.	. Calif	"Sequola"	.0														
ACE			Ges	I	***************************************	-	2	7	230/220		800	930		%	AR	1.75*	~	22	-	14x25	
	24,000	90,000	Com	I	Accession	<b>j</b> ⊷ j	7	7	236/220		800	096		%	AR.	1.75	2	22	:	SANCES AND ADDRESS OF THE PERSONS ASSESSED.	
	24,000	000,000	3	× 2	*********	p= 0	~ ~	7	230/220		900	016		2:	A S	1.75	2 0	22	-	20x25	i
	24,000	112,000	200	EI	************	-  -	40	77	230/220		000	010		* 7	* *	1.75	N 6	22	1 =	30-36	
	24.000	120,000	Gen	E		ja ja	1 01	7	230/220		800	730	-	2 3	Y Y	1.75*	4 0	22		2017	
3ACR	36,000	90,000	Ces	I		-	2	7	230/220	. 1	1200	1110	-	2	AR	2.5	1 00	22	-	20×25	
	36,000	100,000	Ges	I	********	<b>j</b>	es	7	230/220	2	1200	1050	-	%	AR	2.5	2	22		**************	
	36,000	112,000	500	I	********	<b>=</b> (	es :	7	230/220	:	1200	1110	-	2	AR	2.5	2	22	-	20x25	
	36,000	120,000	Ses	r:	**********	- 1	ro e	7	230/220	**	1200	200		2:	AR	2.5	CN I	22	2 1	***************************************	-
SACE	36,000	150,000	5 60	E 35		- 0	7 10	17	230/208/220	: :	2000	795		2 %	* *	4.43	74 64	12	N 0	14x25	3
														:						14x25	
	58,800	187,000	Coss	3	***************************************	U	49	7	230/208/220	:	2000	1000	-	2	AR	4.43*	64	12		16x25	*
	58,800	225,000	995	H5	********	J	*0	7	230/208/220	1	2000	880	-	2/4	AR	4.43*	8	12		20x25	
nner fin	*Inner fin construction.																				
Alco Ref	Refrigeration	Sales &	Service, Inc.,	. 3952 St.	Clair	Ave., Cle	Cleveland,	Ohio -		ler.											
CH750	90,000	180,000	Ges	HS.	1750	B-W	71/2	6	108/220	64	3000	760	-	-	4	6.25	4	22	7	20×25	1650
Mueller	Climatrol.	Div. of Worthington		Corp., 2005	05 W. Oklaho	akoma A	IVe. Mil	waukee	Wis	"Mueller	er Climatrol"	М.,									
				x	1750	-	2	-	230	-		Var.		1/4	*	2.40	0	22	1		
906-31	36,900	***************************************	**********	¥ 3	1750	- (	en 4		230		1200	Var.		*	* 3	3.84	0	22		***********	~
124.100	34,300	80.000	Ces		1/30		9 :	- ;	730		2007			2		3.33	*	77		20.25.2	-
124-125	***************************************	100,000	Casi	****	********			:	******	:	E 0 0 0 0 0 0 0	**********	2	****	-	*******	: :			20x25x2	
4-150	00111111111	120,000	Ges	*****	. Secretarion	f	ž		- marries	;	**********	**********		****	2613		u	xxxx		(2)16x20x2	43
4-100	000101101000	100,000	5 6	*****	********	1	:		******	E.	*********	********		Verice	None			*****	1	20x25x2	w) w
4-150		120,000	ō			1 1	1 1	. ;		: :		***************************************	: :		-			*****		(2)14×20×2	460
Summer Air	Conditioner	and Furnace are housed in separate casings customer	des ui pesnoy .	sarate casin	ngs custom	er has choice	ce of gas	or oil	furnace companion	on unit.	*Also avail	available in 3	phase.								,
4	for Ca 26	Branch Mes Co. 2020 Mantecolm Co. Indiananalle Ind.	in Ce Indi	ollonono	lad	((Bracese))															
25-577	23,200	80,000	Gas	I	1725	B-W	2	-	230	-	800	1050	-	%	4	3.75	2	22	-	16x25x1	530
monlo	Barmanias Biv A	O Carist Corn 147 & Indiana 9	A 147 C	Indian	0 4	Bay 28 W	Vanhahaa		"Basmanias"	11,000											
Samuel Samuel		C. Smills	141 min	THE THE			- CHRUNG		Samuel	2											
24W-1	24,760	90,000	Gos	I	1725		14	_	230	_	800	970	-	3/4	×	2.04	*	22	24	15x20	558
YAC-100-	38 450	80.000	Gas	x	1725	-		_	230	-	1200	1250	-	%	*	2.62	*	22	0	15×20	587
YAC-150-		000		3	1 200				000		1300	200			3					30.00	
W.1.	38,030	170,000	500	Ė	1723	-	7	-	730		200	9		2	*	7.47		77	7	Z0x25	040
60W-1°	65,800	120,000	Gas	r	1725	<b>-</b>	wg .		230	-	2000	1100	-	3/6	*	4.19	4	22	73	20×25	926
24ABC-1	22,500	80,000	Gas	x	1725	<b>&gt;</b>	8	100	230		008	970	-	3/4	AR	2.04	4	22	8	15x20	724
36ABC-1*	35,300	80,000	Sas	I	1725	1	6	1	230	-	1200	1250	-	%	A.	2.92	*	22	7	15x20	761
YAC-150-	35,300	120,000	500	I	1725	-	63	_	230	-	1200	700	-	%	AR	2.92	*	22	2	20x25	823
YAC-150-				;			,		-	,									,		-
ABC.1	SOABC-1 60,000	120,000	5	I	1725	-	n	_	230	-	2000	0011	-	*	¥	4.19	*	22	7	20x25	3

(Continue)	Conmissed
COMBINATIONS	つこうこくとのもう
CHIDALA CE COOLING	りとこうりつしてととうと

Model	Capacity STUH	BTUH	Gas o	Type	Compressor	Make	HP Com	Phase A	Compressor Motor Phase Voltage	No.	Evap. Blower CFM	RPM	Blower Motor No. HP	Motor	Cond.	Face Area N (Sq. Ft.) Ro	Rows	Refrig.	No. A	Air Filter Size (In.)	W.C.
1	-	e	2																		
				SH	1750		2	-	230	-	800/0.2"	800	-	1/4	AR	2.43	~	12	-	16x25x1	196
2.0.84	21,500	84,000	io d	SH	1750		20		230		800/0.2"	800		7/4	A S	2.43	~ 0	12		16x25x1	0:
3-A-140	35,700	112,000	5 5	r I	1725		m e	71	230/208/220		1200/0.2"	800		23	AR	3.5	2 64	22		20x25x1	13
5-A-173*	54,800	140,000	505	I	1725		2 50	7	230/208/220	. ~	2000/0.2"	800	-	1/2	AR	5.0	3	22	~	25x20x1	16
5.0.140	54,800	140,000	io (	I	1725	-	52 1	7	230/208/220	20	2000/0.2"	800		%	AR	5.0	00	22	2 0	25x20x1	17
5-A-140*	54,800	112,000	Ses	<b>E</b> 3	1725		10 N	7	230/208/220	2 0	2000/0.2"	008		1/2	× ×	0.0	20	22	7 0	25x20x1	0 6
2-HC-100**		80,000	Gus	SH	1750	-:	0 00	7-	230 230		800/0.2"	1000		2%	AR	2.43	200	12	-	20x25x1	1063
2.OHC.	93 600	04.000	Ö	7	1760		c		086	-	*6 0/008	1,000		1/2	4.0	2 43	•	13		20.25.1	1 2
3-HC-140**		112,000	3	E	1725	-	4 10	7	230/208/220		1200/0.2"	800	-	2.2	AR	3.3		22	- 69	16x20x1	1246
OHC	26 700	113 000	ë	2	1.536		•		000/000/000		200/0000	900		34	84	2.3		33	•	14-30-1	1.0
2.A-100\$	23,500	80,000	Se S	SH	1750		200	7_			800/0.2"	800		22	€}	2.43	200	12	<b>4</b>	16x25x1	0 0
2-0-84#	23,500	84,000	io.	SH	1750	:	2	-	230	-	800/0.2"	800		3/4	*	2.43	04 0	12	_	16x25x1	
3-A-140#	41,600	112,000	100	II	1725		m e	71	230/208/220		1200/0.2"	800		2 2	* 3	3.5	m m	22		20x25x1	0.0
A-1751	62.900	140,000	5 6	I	1725	*	9 40	7	230/208/220	- 2	2000/0.2"	800		2%	* *	5.93	9 (7)	22	- 2	20x25x1	13
5-0-140#	62,900	140,000	IIO	I	1725	*	193	7	230/208/220	2	2000/0.2"	800	-	1/2	*	5.93	60	22	2	20x25x1	14
5-A-140¢	62,900	112,000	Ocas	I;	1725	> :	40 1	7	230/208/220	20	2000/0.2"	800		2/2	*	5.93	e .	22	~	20x25x1	13
2-HC-100##	23,500	80,000	5 8	z Z	1725	-:	n ev	7_	230/208/220	N	800/0.2"	1000		272	* *	2.43	200	12	7 -	20x25x1	788
2-OHC.			-						000		2000	1.000		**	***	07 0	e				-
84## 3-HC-140##	41,600	112,000	ē 8	I I	1725	-	2 0	-7	230/208/220		1000/0.2"	800		2%	* *	3.3	2 60	22	- 2	20x25x1 16x25x1	952
3-OHC-	41,600	112,000	ii0	I	1725	-	m	7	230/208/220	-	1000/0.2"	800	-	%	W	3.3	63	22	64	16x25x1	1068
"Uphow Uni	Units — Air Cooled.		**Counterflow Units	- Air Cooled.	led. ‡Upflow	Now Units -	- Water	Cooled.	##Counterflow	Units	- Water Cooled.	***West	Westinghouse.								
Crane Co	vi	Michigan Av	Ave., Chicago,	go, III	- "Sunnylan	"pup															4
2-A-100	23,500	90,000	Ses	3	1750	•	2	_	230	-	800	********	-	3/4	**	2.43	2	12		16x25x1	-
2.0.84	23,500	84,000	Oii	15	17.50		2	-	230	-	800	***************************************		1/4	××:	2.43	7	12	-	16x25x1	790
2-HC-100	23,500	80,000	Gas	5	1750		2	1	230	-	800	1	-	7%	<b>* * *</b>	2.43	64	12	-	20x25x1	2 2
2-OHC-84	21,530	84,000	ïö	+5	1750			-	230	-	800	***************************************	-	3%	× ×	2.43	2	12	-	20x25x1	88
3.4.140	34,300	112 000	200	H	1750		en	7	230/208/220	-	1200		-		AR ×	3.47	2	22		20x25x1	119
	34,300														AR				. ,		131
3.0.112	37,350	112,000	ő	SE	1750	•	m	7	230/208/220	-	1200	***************************************	-	2	× ×	3.47	2	22	-	20x25x1	101
3-HC-140	37,350	112,000	Ses	SH	1750	٠	9	7	230/208/220	-	1200	** *****	-	%	> 5	3.47	2	22	2	16x20x1	8
3-OHC-112	37,350	112,000	ii0	SH	17.50		6	7	230/208/220	-	1200		-	1/2	<b>*</b>	3.47	2	22	2	16x20x1	200
5.A.175	54,600	140,000	Ges	SH	1750	. :	10	7	230/208/220	-	2000		-	%	× ×	5.93	6	12	2	20x25x1	13
	54,600	112 000	ě	3	1750	٠:	61	7	230/208/220	-	2000		-		AR	5.93	en	12	6	20~24~1	187
	54,600	2001							1000						AR	5.93		12			17
-0.140	62,900	140,000	iio	3	1750	: •	50	7	230/208/220	-	2000	*******	_	. 2/1	**	5.95	m	22	2	20x25x1	136
S-0-112 62	62,900	112,000	IIO	3	.750	:	49	7	230/208/220	-	2000	***************************************	-	1/2	**	5.62	0	22	2	20x25x1	4
Bard Mfa	0	Evansport Road.	Bryon.	Ohio -	"Bard"																
FOSAC21	2 800	04.000	lio			-	2	-	230	-	800	875				2.04	4	22		20x25x1	9.0
	35,300	95,000	5 6	I	- consensus	-	n		230		1200	920	-			2.92	4	22		20x25x1	96
_	22,500	88,000	Ser.	I	***************************************		20		230		800	875				2.04	4.	22		20x25x1	8 2
G110AC31	35,300	95,000	15 O	SH		- U	m c		230		800	875		22	WR	2.13	4 0	12		20x25x1	1070
	42,525	95,000	Ö	HS.		· U	0	-	230	-	1200	920				2.38	4	12	-	20x25x1	122
5	28,350	88,000	Gos	SH					230		900	200				200		2.9		20~25~1	8
		Nam as	-	779		, ,	4 6		000		2000	6/8				9 0 0	2 4	**		- PA- PA- 1	-

FURNACE-COOLING COMBINATIONS (Continued)

	Cantlan	Canalita.	E.m.l				_						Fv	1		From.	8				-
Model No.	Capacity	BTUH	(Ges er	Type	Compressor RPM	Make	2	Phuse	Compressor Motor Phase Voltage	-é	Evap. Blower CFM	MAN.	Blows No.	Blower Motor No. HP	Cond.	Face Area (Sq. Pt.)	Res R	Refrig.	No. Alt	Air Filter Size (In.)	N K
Henry	Furnace Co.,	Medina,	Ohio - "																		
2.A.100°	21,500	80,000	3	3.	1750		~		230		800/0.2	900		%:	AR	2.43	2	12		16x25x1	96
2-O-84°	24,500	112,000	5 6	7 2	1725		2 6		230/206/220		1200/0.2			2 2	AR	2.43	~ •	12		16x25x1	107
3.0.112*	35,700	112,000	500	r	1725		2 67	77	230/208/220		1200/0.2			23	22	2.5	20	22		ZUKZSKI	101
5-A-175	54,800	140,000	8	I	1725	***	9 64	-	230	- 000	2000/0.2		-	22	Y W	5.0	2 07	22	- 2	25x20x1	165
5-0-140*		140,000	100	I	1725		2	-	230		2000/0.2		-	2	AR	5.0		22	2	25x20x1	178
5.0.112	54,800	112,000	80	I	1725	-	9	7	230/208/220	-	2000/0.2"		-	2	AR	5.0	0	22	2	25x20x1	165
5.A.140*		112,000	ō	z;	1725	- 1		7:	230/208/220	se 8	2000/0.2"			%:	AR	5.0	0	22	2	25x20x1	178
2-HC-100**	21,300	80,000	880	F 2	1750	- >	n «	7.	230/208/220	P4 F	800/0.2	_		2:	AR	2.43	2.5	12		20x25x1	106
3-HC-140**	** 35.700	112,000	5 8	ĘI	1725	- 1-	n w1	77	230/208/220	7 0	1200/0.2			2 2	7 07	2.43	4 6	23	- 6	20x25x1	1244
3.OHC.																		:			
112**		112,000	ō	I	1725	-	10	7	230/208/220	64 .	1200/0.2	800	-	%	AR	3.3	0	22	8	16x20x1	136
2-A-100¢		80,000	10 G	H.	1750		P4 6		230		800/0.2	800		2	*	2.43	~	12	-	16x25x1	69
2. O. 044	41 400	112,000	5 8	E 2	1736		7 6	-	020/006/026		1200/0.2	900		2 2	3	2.43	7 6	22		16x25x1	2 3
3-0-112#		112,000	ō	I	1725	e per	9 00	7	230/208/220		1200/0.2"	800	-	2 %	* >	3.3	2 67	22		20x25x1	101
5-A-175\$		140,000	Ses	I	1725	*	8	7	230/208/220	~	2000/0.2"	900	-	2	W	5.93		22	. 04	20x25x1	1360
5-0-140\$	62,900	140,000	5	I	1725	A	100	7	230/208/220	2	2000/0.2"	900		%	*	5.93	•	22	~	20x25x1	1484
5-A-140\$	62,900	112,000	Ses	<b>z</b>	1725	A :	W3 1	7	230/208/220	ca :	2000/0.2"	800	-	%	*	5.93	8	22	2	20x25x1	1360
5-0-112#	62,900	112,000	0	I d	1725	-	en c	7.	230/208/220	P4 =	2000/0.2"	900		\$:	*	5.93	en 1	22	~	20x25x1	148
2-OHC-848	11 23 500	84,000	1 i i	E HS	1740	:	* 6		230	- ,-	900/0.2	1000		2 %	* 3	2.43	N 6	2 5		20x25x1	9 6
3-HC-140##	11,600	112,000	88	I	1725	-	e es	7	230/208/220	-	1000/0.2"	808		2.2	* *	3.3	4 19	22	- 04	16x25x1	952
3-OHC-	41 400	112 000	8	3	1356	-		-	230/208/220		1000/0001	000		177	3			00		14-98-1	1040
"Upflow	*Upflow Units — Air Cooled.	4	**Counterflow Units -	-		Row Units -	20		##Counterflow L	Units -	Water Cooled.	200	-	2		2.5	,	77		1887381	90
American	Furnace	Co., 1300 Hampton	Hampton A	Ave., St. L	Louis, Mo.	1	"AFCO Co	mfortmaker	iker"												
SH105 CM2A-1	22,000	84,000	Ges	I	1750	ĝas	64	-	230	-	850	9-800	-	%	AR	2.5	en	22	2	16x25	
H150	34.000	84,000	Ges	x	1750	-	n	7	230/220	-	1200	9-800	-	%	AR	3.15	4	22	2	16x25	***
H120				: 3					480		628	4.800		77	04	316	4	33	6	14-25	
M2A-1	22,000	96,000	Gas	I	1750	-	2	-	230	-	000	000-0		2	Y.	6.13		77		164.5	******
W-34	34,000	96,000	Gas	I	1750	-	6	7	230/220	-	1200	008-9	-	1/2	AR	3.15	*	22	~	16x25	******
CM-3A	34,000	120,000	ğ	I	1750	1	m	7	230/220	-	1200	9-900	-	1/4	AR	3.15	4	22	64	15x30%	
SH180 CM-4A	47,500	144,000	583	I	1750	-	*	7	230/220	-	1600	9-800	-	#	AR	4.1	n	22	4	16×20	
SH180	***	144 000	-	3	1760		*	-	240/220		2000	4-800		al a	AR	1.1	4	22	4	16x20	
SH105	000,000	200	3	:	3	. (									3					24-98	
CM-2T	24,000	84,000	Gas	I	1730	jus .	N	_	230	-	930	0-800	-	g		6.3	2	77	4	C7×01	overes.
CM-3T	36,000	84,000	Gas	I	1750	-	3	7	230/220	-	1200	9-800	-	2	*	3.15	4	22	~	16x25	
SH120 CM-27	24,000	96,000	Gas	I	1750	<b>j</b> =-	2	-	230	-	850	9-800	-	1/2	W	2.15	*	22	2	16x25	
H120	36,000	96,000	Ga	x	1750	-	69	7	230/220	-	1200	9-800	-	%	*	3.15	*	22	64	16x25	*******
H150	36.000	120.000	Qui	I	1750	-	6	7	230/220	-	1200	9-800	200	**	*	3.15	*	22	64	15×30%	*******
SH180	40 000	144 000	Ges	I	1750	-	¥7	7	230/220	_	2000	9-800	-	7%	*	4.1	4	22	4	16×20	-
1 2	Corp., 300 S. Geddes St., Syracuse,	Geddes	St., Syrace	use, N. Y.																	
			Gos & Oil	I	1750	(			230/208		900	160		75	**	2 2 2	- 6	2-W	-	20x25	480
380	36.000	112,000	Gas & Oil	I	1750	0	74		230/208		3	0		2 :	(≥:			22-W			-
5						0	3	7	220/440/590	_	1350	883	-	2	AR	3.67	2	Z-A	-	16x25	900
Wright A	Mfg. Co., 2902 W. Thomas Rd., Phoenix,	12 W. Tho	mas Rd., P	Phoenix, A	Arit.			-	230		740	50	-	74		2.1		33			605
Name and Address of the Owner, where the Owner, which is the Ow	24 mm	ALL MAN			20.00		*		200		200	200		740				-	**		-

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Air Filter Size (in.)		16x20x1	16x20x1	16×20×1	10×20×1	10x20x1	10×20×1	16x20x1	14-20×1	16x20x1	16×20×1	16x20x1	16x20x1	16×20×1	16×20×1	16×20×1	1 x02x01	14x20x1	16x20x1	16×20×1	16x20x1	16×20×1	16×20×1	16×20×1	16x20x1	20×20×1	20×20×1	20×20×1	20×20×1	15x20x1	IAXZOXI					***********	************	0.0000000000000000000000000000000000000	***********	***************************************			16x20x1	16×20×1	16x25x1	16x25x1	16x25x1	16×20×1	16×20×1	16x25x1	16x25x1	16x20x1	16x20x1	16x20x1		
Ź		gin i		-	~ *	4 64	~	e4 6	n 0	N 61	***	*	*	~	PN 1	P4 0	40		. 0	64		24	7	24	2	64	64	7	64	4 -				: :	,	:	:		:	:			~	7 6	40	1 00	-	64	2	2 6	4 C1	4	4	*		
Refrig.		22	22	22	22	22	22	22	2 2	22	22	22	22	22	22	77	33	33	2 2	32	22	22	13	22	22	22	22	22	22	3 23	77		23	22	22	22	22	22	22	22			22	27	12	22	22	22	22	22	22	12	22	172		
Cell No. Rows		4	4 4	4	4 .	4 4	*	m e	n e	9 01		•	0	en	-	m e		. 4		*	4	-	•	4	*	67	•	0	0	m e	,		2	. 4	4	4	*	2	4	•			6		• -		•	2	es	e c	n er	, m		9		
Face Area (Sq. Fr.)		1.60	99.	1.60	09.1	09.1	1.60	2.75	2.73	2.75	2.75	2.75	3.00	3.00	3.00	8.8	38	2.75	2.75	2.75	2.75	2.75	2.75	3.00	3.00	4.00	4.00	8.4	8.4	8.8	*.00		1.65	2.8	6.4	8.9	0	1.65	2.8	4.6			2.36	2.60	4.50	4.58	1.91	1.91	3.13	3.13	4.72	4.72	4.72	6.20		
Cond.		*	* *	7	¥ S	* *	AR	AR	* *	¥ 8	AR	¥	AR	AR	AK	¥ s	¥ *	¥ 3	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR.	YK.		94	AR	¥	¥	AR	AR	AR	7			A.R.	AR.	× ×	¥ .	AR	A.R.	7	Y.	7 7	AR	AR	AR		
P. Motor HP		75	2 2	2	2:	2.3	75	%:	22	23	2 %	7	22	%²	2.	s:	2 2	2 3	2 7	2	2	**	2	1,4	7	1/2	ž	2	2	<b>5</b> ×	E.		16	2	76	-	17%	*	2	7.			<b>%</b> :	22	22	77	176	7/	2	2:2	27	1%	1/2	1/2		
Evap. Blower Motor No. HP		-		_			-				-	-		-	gen.						-		-	-	-		1	-	-		-		***	:	**	**-	**!	*		:						-	-	-	900	- 1		_	-	-		
EP.M		# e e e e e e	**********			parameter .		*********	8 8 9 0 0 0	********			* * * * * * * * * * * * * * * * * * * *	********			0 0 0 0 0 0 0 0 0 0	86450000		0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0	***************************************	6		***************************************		**********	********	***************************************		1050	1080	650	650	909	1050	1080	920			880	828	019	975	1000	830	830	760	725	700	750	200		
Evep. Blower CFM		800	900	800	800	900	900	1200	1200	1200	1200	1200	1200	1200	1200	1200	200	1400	1400	1400	1400	1400	1400	1400	1400	1600	1600	1600	1600	2000	7000		1000	1200	2000	3200	4200	1000	1200	2000		Ohio	800	1200	1200	2000	630	630	1050	1050	1230	1230	1720	2140		
		-		_			_				-	_		_	-	,						-	_	_	_	-	-	-	-	P4 F	7		***	**!	:	1**	1 **	**!	**	*		mbus,	-					_	_	-				2		
Veltage	"Holly"	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	730	230	230	230	230	230	230	230	230	230	230	230	230	230	230		230	220	220	220	220	220	220	220		Ave., Colu	230	00/208/220	10/208/220	00/308/330	230	230	10/208/220	0/208/220	230/208/220	0/208/220	0/208/220	208/220		
Compresser Motor Phase Voltage	Calif	_					-	7	7:	11	17	7	7	7	7	7	7	?	7	7		1	7	7	7	7	7	7	7	7:	7				7	-	3	_	_	7		Dublin A		7	7	1 9 9		_	7	13 23	7	77	13 23	3		
Сетри	asadena, C	64	e e	• (*	~	79 67	2	m (	n •				67	es	60	m (	n (			9 69	9 6		9 87	0 07	m	4	4	4	*	w .	0	Calif.	217	31%	616	8 3/4	13	21/2	31/2	61/2		400	2	0	en 1	0 4		. ~	•	0	40 H	n w	e est	71/2		
Make	ly. Pasa	je .	je je		<b>i</b> - 1		-	-	- 1			-	-	-	-	-						, ja			_	-	-	-	-		-	geles.		- 1-	-		-	_	ja-	-		on Corp.	-	<b>j</b> ee (	<b>-</b> •			, po	<u>-</u>	_			-			
RPM	Parkwa	725	725	725	725	725	725	725	725	735	725	725	725	725	725	725	725	736	726	725	236	725	725	725	725	725	725	725	725	1725	725	Los An	3021	226	228	725	725	725	1725	725		Combustio	1725	1725	725	200	25	725	725	25	1750	05/1	25	1750		
Compressor RPM	Arroyo			_			-	-			-	_	-	-	_					-			-	-	-	-	-	-	-			om St.				-	12	113	17	17		Surface Co	17	71	17	12	13	17	17	17	11	17	17	17	esting house.	
Type	p. 875	I	I	T	I	E 3	I	I	I :	E 3	E	I	I	I	I	Ι:	I :	E 3	E 3	E 3	: 3	: 3	z	1	<b>I</b>	Ξ	I	I	Ξ	I:	E	E. Dunham		E 3	. 1	I	I	I	I	I		Div., Sur	I	I:	T i	2 2	I	I	I	I	±5 =	- 35	T	T.S	*Westing	
Fuel (Gas or Oil)	legler Corp.	Gen	S C	888	Cos	5 6	Ges	Cos	500	3 6	3 3	Gas	Ser	500	Çes	Con	500	6 6	5 6	3 3	3 3	3 3	5 5	Ger	See	Ses	Con	Sei	Gas	Sas	503	4542							*********		- 1	_	Sea	Sos	Coss	3 6	3 8	Ges	Gas	Ges	500	5 8	5 6	8	of order.	
Heating Capacity BTUH Output	100	\$6,000	21,000	80,000	56,000	22,000	80,000	54,000	000,75	80,000	94,000	112,000	96,000	64,000	72,000	80,000	96,000	2,000	28,000	72,000	000,04	900,49	112,000	94.000	112,000	96,000	112,000	96,000	112,000	112,000	112,000	ioning Corn.		0 0 0 0 0 0 0 0 0 0	010000000000000000000000000000000000000			*****************	*************	*****		Air Conditioning	80,000	80,000	112,000	112,000	44,000	000'96	96,000	128,000	128,000	149,000	140.000	160,000	specified at time o	
Cooling Capacity BTUH	Co.	2,000	22,000	2,000	2,000	22,000	22,000	35,600	15,600	25,600	35,400	35,600	35,400	35,600	2,600	35,600	15,600	2,000	42,000	42,000	42,000	42,000	2,000	2,000	2,000	48,000	8,000	8,000	48,000	60,000	0,000	Air Conditioning		47 700	45,500	1.250	131,000	24,000	37,700	65,500	Not furnished.	Heating &	21,800	34,900	006,700	000	400	400	34,700	34,700	45,600	200	54.700	006	dre is	
	Holly-General			. «						. 4										OUVE 314 A		( 4					_	-				General Ai										_	-	_		10-65 47	1.86 28									
Model No.	Hol	70VF-2A	80VF-2A	100VF-2A	70CF-2A	BUCF-2A	100CF-2A	70VF	BOVF-3A	NOVE-3A	120VF.3A	140VF-3A	70CF-3A	80CF-3A	90CF	100CF-3A	1200	140CF-3A	POOR	BOVE	1001	12000	1404	12001	1400	1200	140VF-4A	120CF-4A	140CF-44	140VF-5A	140C	Gen		200	100.67	IRC757	IRCIO	MEC27	MEC37	MEC57	TOTA	Janifrol	CVS100-65	CV\$100-65	CVS140-65	CVS140-65	CVCBC	200	CVC120-85	CVC160-85	CVC160-83	CACIO	CVC200-84	CVC200-85	Evaporator	

FURNACE-COOLING COMBINATIONS (Continued)

Fig.   Bio   Procedure   No. 1, No.	Model No.	Coeling Capacity STUH	Capecity ETUH Output	Fuel (Gas or Oil)	Type	Compressor	Make	2	Cempresser Motor Phase Voltage	ine Veltage	ź	Frap. Blower CFM	M48	Evap. Blower Meter No. HP	E S	j.	Foce Area (Sq. P.)	Cell	Refrig.	ź	Air Filher Size (In.)	W. Zee
	lectri	C Heating 4800 4800 toined remote	Cooling, 11,400 11,400 electric water	Elec. Gas & Oil heater for room	sadway.	Newark,		(2)15 (2)15 teating pla	778	110/220 110/220 emole water	chiller.	1	remotely loc	water	chiller mg	113	or this equit	n early 1	22		9%x10% 9%x10%	
	ork C	orp., Subsie	diary of Be	rg-Warner	Corp. G	rantley Rd		.0	"Yorks	ire Patrici	""											
	SG-21	24,800	900'09	Gas	ı	1750	0	(2)1	_	230/208	-	800	*********		*	W-AR	2.6	•	22	*	16x25x1	
	156-31	36,000	84,000	Gas	I	1750	0	(2)1 1/2		230/208	-	1200	Appendix of the last	-	%	W-AR	3.8	0	22	e	20x25x1	
	F84	24,800	81,000	ō	I:	1750	0	(2)1		230/208		850	Antabase .		× :	W-AR	2.6	e .	22	por ,	16x25x1	
1,000   1,000   0.00   1.00	F112	34,800	112,000	5 6	II	1750	00	(2)1		230/208		1175	**************************************		22	W-AR	3.6	ne	3 53		16x25x1	
9.4000 112,000 00.0 H 1730 0 0 0 0 1 1 1 1 200,000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16140	36,000	112,000	5	I	1750	00	(2)1%	. 500	230/208	-	1175		-	2 %	W-AR	3.8	00	22	-	20x25x1	
	F84	24,800	84,000	ō	I	1750	0	(2)1	_	230/208	-	800	*********	-	3	W-AR	2.6	•	22	-	20x25x1	
	G100	34,800	80,000	5 G	I 1	1750	00	(2)1		230/208		900	24450555		22	W-AR	2.6		21	- 0	20x25x1	
6.5000 14,0000 Cos H 1750 Co S 1-3 20/2012/20 2 2000 — 1 15 5 5 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2	G140	36,000	112,000	5 6	E	1750	00	(2)1 %	as per	230/208		1175	***************************************		23	W.AR	0 00		22	N 6	14x20x1	
25.000         Conditionaling Div., 40 West 40th St., New York, N.Y.—"American-Steandard"         35.000         60.000         Con.         H         7723         T         2         1         20.001         56.0         16.6         W         2.11         3         22.1         3         22.3         1         30.24sil           25.500         10,000         Con.         H         1723         T         2.10         230         1         60         1         6         W         2.11         3         2.1         3         1         30.001         1         6         W         2.11         3         2.1         3         1         30.001         1         6         W         2.11         9         W         2.11         9         1         30.001         1         6         1         6         1         6         1         6         1         2         1         2.00         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         6 </td <td>F140</td> <td>63,000</td> <td>140,000</td> <td>- 80 - 80 - 80 - 80</td> <td>II</td> <td>1750</td> <td>00</td> <td>wn wn</td> <td></td> <td>230/208/220</td> <td>~ ~</td> <td>2000</td> <td>***************************************</td> <td></td> <td>22</td> <td>W.AR</td> <td>5.9</td> <td></td> <td>22</td> <td></td> <td>20x25x1 20x25x1</td> <td></td>	F140	63,000	140,000	- 80 - 80 - 80 - 80	II	1750	00	wn wn		230/208/220	~ ~	2000	***************************************		22	W.AR	5.9		22		20x25x1 20x25x1	
1,5,000   Cas   H   1723   T   2   1   230   T   800   890   T   W   W   2,11   T   2   2   2   2   2   2   2   2   2	meric	an-Standare	d Corp. A	r Condition	ing Div.	40 West		New	ork, N.	1	nerican	-Standard	44									
35,000         Gas         H         1735         T         2         1         200         400         H         H         1735         T         2         1         200         400         H         H         1735         T         2         1         200         H         H         1735         T         2         1         200         H         H         M         2.53         4         2.53         4         2         1         200.281           35,000         100,000         Gas         H         1723         T         2         1         200         1         100         80         7         1         1         1         1         1         1         2         1         200         1         1         1         1         2         1         200         1         1         1         2         1         2         1         1         1         1         1         2         1         2         1         1         1         1         1         1         2         1         2         1         2         1         2         1         2         1         2         2 <t< td=""><td>75. 2W</td><td>25,000</td><td>900'09</td><td>Ges</td><td>I</td><td>1725</td><td>i=</td><td>64</td><td></td><td>230</td><td>-</td><td>800</td><td>780</td><td>-</td><td>75</td><td>*</td><td>2.11</td><td>en</td><td>22</td><td>-</td><td>20x25x1</td><td></td></t<>	75. 2W	25,000	900'09	Ges	I	1725	i=	64		230	-	800	780	-	75	*	2.11	en	22	-	20x25x1	
35,000         60,000         6a,0         4a,0         6a,0	.2w		80,000	Ges	I	1725	-	2	-	230	-	800	069	-	*	3	2.11		22	-	20x25x1	
35,000         Gas         H         1723         T         2         1         200         750         1         750         750         1 <t< td=""><td>3W.</td><td></td><td>80,000</td><td>Ges</td><td>I</td><td>1725</td><td><b>=</b></td><td>•</td><td>-</td><td>230</td><td>-</td><td>1200</td><td>850</td><td></td><td>25</td><td>*</td><td>2.53</td><td>•</td><td>22</td><td>-</td><td>20x25x1</td><td></td></t<>	3W.		80,000	Ges	I	1725	<b>=</b>	•	-	230	-	1200	850		25	*	2.53	•	22	-	20x25x1	
37,000         Geat         H         1723         T         230         1         100         890         1         96         95         1         96         2.0         1         96         2.0         1         96         2.0         1         96         1         96         1         96         1         96         1         96         1         96         1         96         1         96         1         96         1         96         1         96         1         96         1         96         1         96         1         96         96         1         96         96         1         96         96         1         96         96         1         96         96         1         96         96         1         96         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1	125. 2W		100,000	Gas	2	1725	-	2	-	230	-	800	720	-	25	*	2.11	en	22	-	20×25×1	
35,000         Gas         H         1725         T         230         1         800         750         1         7         7         1         7         1         7         7         7         7         1         255         1         250         1         750         1	125-		100,000	Sas	I	1725	1	e,	-	230	-	1200	850		%	*	2.53	*	22	-	20x25x1	
37,000         6,000         Gea         H         1723         T         230         1         150         150         1         1,0         M         2,53         4         2,53         4         2,53         4         2,53         4         2,53         4         2,53         4         2,53         4         2,53         1         2,62,63         1         1,0         M         2,53         4         2,53         4         2,53         4         2,53         4         2,53         4         2,53         4         2,53         4         2,53         1         2,62,53         1         2,	2W.		120,000	Gen	I	1725	<b>-</b>	~	-	230	-	800	750	-	%	*	2.11	m	22	~	16x25x1	
1,600         60,000         Ges         H         1725         T         230         1         800         70         4         AR         2.11         3         22         1         200-381           1,600         80,000         60,000         60,000         60,000         60         7         46         2.11         3         22         1         200-381           1,600         80,000         60,000         60         H         170         60         1         46         2.11         3         22         1         200-381           1,600         80,000         60,000         60         H         170         80         7         46         2.11         3         2         1         200-381           1,600         10,000         60         1         100         80         1         46         2.1         3         1         200-381           1,600         10,000         60         1         10         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>3%</td> <td></td> <td>120,000</td> <td>89</td> <td>I</td> <td>1725</td> <td>-</td> <td>8</td> <td>-</td> <td>230</td> <td>-</td> <td>1200</td> <td>850</td> <td>-</td> <td>%</td> <td>3</td> <td>2.53</td> <td>4</td> <td>22</td> <td>~</td> <td>16x25x1</td> <td></td>	3%		120,000	89	I	1725	-	8	-	230	-	1200	850	-	%	3	2.53	4	22	~	16x25x1	
1,600         690         690         7         AR         211.         3         2         2         1         204.581           1,600         690         690         7         Ma         2.53         4         22         1         204.281           1,600         690         60,000         Gea         H         1725         T         2         1         230         1         60         AR         2.53         4         22         1         204.281           21,000         Gea         H         1725         T         2         1         200         1         %         AR         2.11         3         2         1         204.281           21,000         Gea         H         1725         T         2         1         200         1         %         AR         2.11         3         2         2         2         2         3         2         3         4         6         3         4         2         4         2         1         2         1         200.281         3         4         2         1         2         1         2         1         2         1         2	2AC*		900'09	Ges	I	1725	<b>j</b>	*	_	230	-	900	780		*	AR	2.11	•	22	-	20x25x1	
1,600   60,000   Gas   H   1725   T   2   T   230   T   1200   699   T   946   AR   2,53   4   22   T   20425k1     21,600   100,000   Gas   H   1725   T   2   T   230   T	ZAC.		80,000	Gas	I	1725	1	8		230	_	900	069	*	2	AR	2.11.	0	22	-	20x25x1	
21,600         Geat         H         1723         T         230         1         230         1         730         7         AR         2.11         3         22         1         20x28x1           31,600         100,000         Geat         H         1723         T         230         1         1200         99         1         76         AR         2.53         4         22         1         20x28x1           21,600         100,000         Geat         H         1723         T         2         1         200         1         1200         AR         2.11         3         2         2         1         20x28x1           21,600         120,000         Geat         H         1723         T         2         1         200         1         1200         8         AR         2.11         3         2         2         1         20x28x1         3         4         2         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1	3AC*		80,030	Gos	I	1725	-	6		230	_	1200	850	-	%	AR	2.53	*	22	_	20x25x1	
31,600         Gest         H         1725         T         30         1         1200         89         1         69         89         1         69         48         2.3         4         25         1         2002           21,600         120,000         Gos         H         1725         T         2         1         200         1         90         9         4         2.3         4         2         1         2002           21,600         120,000         Gos         H         1725         T         2         1         120         9         1         90         9         1         9         4         2.3         4         2.3         4         2.3         4         2         1         200         1         1200         9         1         120         9         1         200         1         200         1         200         1         200         1         20         1         20         1         200         1         200         1         1         20         1         200         1         20         1         20         1         20         1         20         1         2	2AC*		100,000	Sos	I	1725		2		230	-	900	720		%	AR	2.11	0	22	-	20x25x1	
21,600         Gost         H         1725         T         230         1         800         750         1         750	3AC*		100,000	Ges	x	1725	-			230	_	1200	850		%	AR	2.53	4	22	-	20x25x1	
31,600 120,000 Ges H 1725 T 23 1 230 1 1000 830 1 1,4 M 2.33 4 2.33 4 22 1 16.25x1  25,000 85,000 Oil H 1725 T 230 1 230 1 1200 850 1 1,4 M 2.11 3 2.33 4 22 1 20x25x1  25,000 112,000 Oil H 1725 T 2 1 230 1 1200 850 1 1,4 M 2.33 4 2.33 1 20x25x1  25,000 112,000 Oil H 1725 T 2 1 230 1 1200 850 1 1,4 M 2.33 1 230 1 1200  25,000 112,000 Oil H 1725 T 2 1 230 1 1200 850 1 1,4 M 2.33 1 230 1 1200  25,000 112,000 Oil H 1725 T 2 1 230 1 1200 850 1 1,4 M 2.33 1 1200 850 1 1,4 M 2.33 1 1 230 1 1 20x25x1  25,000 112,000 Oil H 1725 T 2 1 230 1 1200 850 1 1,4 M 2.33 1 1 230 1 1 230 1 1 200 850 1 1,4 M 2.33 1 1 230 1 1 23	2AC*		120,000	Gos	I	1725	-	2	,	230	-	800	750		%	AR	2.11	3	22	64	16x25x1	
25,000         68,000         Oil         H         1725         T         230         1         800         600         1         ¼6         W         2.11         3         22         1         2042841           25,000         68,000         0il         H         1725         T         230         1         1200         850         1         ¼6         W         2.33         4         22         1         2042841           25,000         112,000         Oil         H         1725         T         2         1         230         1         1200         850         1         ¼6         W         2.33         4         22         2         1642841           21,600         112,000         Oil         H         1725         T         2         1         200         850         1         ¼6         W         2.33         4         22         2         1642841           21,600         85,000         Oil         H         1725         T         2         1         200         1         1,00         80         1         ¼6         AR         2.11         3         22         1         2042841 <t< td=""><td>3AC.</td><td></td><td>120,000</td><td>Gas</td><td>I</td><td>1725</td><td>-</td><td>m</td><td>-</td><td>230</td><td>_</td><td>1200</td><td>850</td><td>_</td><td>%</td><td>AR</td><td>2.53</td><td>*</td><td>22</td><td>~</td><td>16x25x1</td><td></td></t<>	3AC.		120,000	Gas	I	1725	-	m	-	230	_	1200	850	_	%	AR	2.53	*	22	~	16x25x1	
35,000 68,000 0ii H 1725 T 20 1 230 1 1200 850 1 1/4 W 2.53 4 2.5 1 20x38x1 25,000 112,000 0ii H 1725 T 2 1 230 1 1200 850 1 1/4 W 2.53 4 2.5 1 20x38x1 25,000 112,000 0ii H 1725 T 2 1 230 1 1200 850 1 1/4 MR 2.53 4 2.5 1 20x38x1 25,000 21,000 0ii H 1725 T 2 1 230 1 1200 850 1 1/4 MR 2.53 4 2.5 1 20x38x1 21,000 0ii H 1725 T 2 1 230 1 1200 850 1 1/4 MR 2.53 4 2.5 1 20x38x1 21,000 0ii H 1725 T 2 1 230 1 1200 850 1 1/4 MR 2.53 4 2.5 2 1 10x38x1 21,000 0ii H 1725 T 2 1 230 1 1200 850 1 1/4 MR 2.53 4 2.5 2 1 10x38x1 21,000 0ii H 1725 T 2 1 1200 850 1 1/4 MR 2.53 4 2.5 2 1 10x38x1 21,000 0ii H 1725 T 2 1 1200 850 1 1/4 MR 2.53 4 2.5 2 2 1 10x38x1 21,000 0ii H 1725 T 2 1 1200 850 1 1/4 MR 2.53 4 2.5 2 2 1 10x38x1 21,000 0ii H 1725 T 2 2 1 10x28x1 21,000 0ii H 1725 T 2 2 1 10x28x1 21,000 0ii H 1725 T 2 2 1 10x28x1 21,000 0ii H 1725 T 2 2 1 10x28x1 21,000 0ii H 1725 T 2 2 2 2 1 10x28x1 21,000 0ii H 1725 T 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-2W		\$5,000	io	x	1725	<b>-</b>	64		230	-	800	9	-	%	*	2.11		22		20x25x1	
25,000 112,000 Oil H 1725 T 2 1 230 1 800 690 1 1/4 W 2.11 3 22 2 1 1642841 31,000 112,000 Oil H 1725 T 2 1 230 1 1000 850 1 1/4 W 2.53 4 22 2 1 5042841 31,600 85,000 Oil H 1725 T 2 1 230 1 1000 850 1 1/4 MR 2.11 3 22 2 1 2042841 31,600 112,000 Oil H 1725 T 2 1 230 1 1000 850 1 1/4 MR 2.11 3 22 2 1 1042841 31,600 112,000 Oil H 1725 T 3 1 230 1 1000 850 1 1/4 MR 2.13 4 22 2 1 1642841 31,600 112,000 Oil H 1725 T 3 1 230 1 1200 850 1 1/4 MR 2.53 4 22 2 1 1642841	35. -3W		85,000	110	x	1725	-	m	-	230	-	1200	850		3/4	*	2.53	4	22	-	20x25x1	
37,000 112,000 Oil H 1725 T 3 1 230 1 1200 850 1 1/4 W 2.53 4 22 2 1 642841 1 1,000 850 1 1/4 W 2.53 4 22 2 1 642841 1 1,000 85,000 Oil H 1725 T 2 1 230 1 1000 850 1 1/4 AR 2.11 3 22 1 2042841 1 2042841 1 1,000 Oil H 1725 T 2 1 230 1 1000 850 1 1/4 AR 2.11 3 22 2 1 1,000 1 1,000 Oil H 1725 T 3 1 230 1 1200 850 1 1/4 AR 2.53 4 22 2 1 1,000 1 1,000 Oil H 1725 T 3 1 230 1 1200 850 1 1/4 AR 2.53 4 22 2 1 1,000 1 1,000 0il H 1725 T 3 1 1 230 1 1 1200 850 1 1/4 AR 2.53 4 22 2 1 1,000 1 1,000 0il H 1725 T 3 1 1 230 1 1 1,000 850 1 1/4 AR 2.53 4 22 2 1 1,000 1 1,000 0il H 1725 T 3 1 1,000 1 1,000 0il H 1725 T 3 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1,000 1 1,000 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1,000 1 1 1 1	12.		112,000	IIO	I	1725	-	2		730	-	800	969	-	%	W	2.11	9	23	8	16x25x1	
31,600 65,000 Oil H 1725 T 2 1 230 I 800 690 I ¼4 AR 2.11 3 22 T 2042841 3 31,600 II,2,000 Oil H 1725 T 2 1 230 I 1200 650 I ¼5 AR 2.33 4 22 I 3042841 I 23,600 II,2,000 Oil H 1725 T 3 I 230 I 1200 650 I ¼5 AR 2.33 4 22 Z I 1642841 I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	112.		112,000	100	I	1725	<b>-</b>	m	-	230	-	1200	850	-	1/2	*	2.53	4	22	~	16x25x1	998
31,600 65,000 Oil H 1725 T 3 1 230 1 1200 650 1 1/4 AR 2.53 4 22 1 2042541 31,600 112,000 Oil H 1725 T 2 1 230 1 1200 650 1 1/5 AR 2.11 3 22 2 1642541 31,600 0il H 1725 T 3 1 230 1 1200 650 1 1/5 AR 2.53 4 22 2 1642541 31,600 0il H 1725 T 3 1 230 1 1200 650 1 1/5 AR 2.53 4 22 2 1642541 31,600 0il H 1725 T 3 1 230 1 1200 650 1 1/5 AR 2.53 4 22 2 1642541	85-		85,000	110	x	1725	<b>j</b> =	2		230	_	900	069	-	3%	AR	2.11	69	22	-	20×25×1	994
21,600 112,000 Oil H 1725 T 2 1 230 1 800 690 , 1/5 AR 2.11 3 22 2 1 16425x1 31,000 Oil H 1725 T 3 1 230 1 1200 850 1 1/5 AR 2.53 4 22 2 16425x1 31,000 Oil H 1725 T 3 1 230 1 1200 850 1 1/5 AR 2.53 4 22 2 16425x1	85-		85,000	110	I	1725	-		-	230	-	1200	850	6-	25	AR	2.53	4	22	_	20x25x1	1014
31,600 112,000 Oil H 1725 T 3 1 230 1 1200 850 1 1/5 AR 2.53 4 22 2 16x25x1	1.2AC*		112,000	ē	I	1725	<b>=</b>	2	-	230	-	800	069		1/2	AR	2.11	6	22	8	16x25x1	1004
pleas Acquirement in a consiste	3AC*	31,600	112,000	Dio	H le commo		-	9	-	230	-	1200	850	-	%	AR	2.53	*	22	7	16x25x1	-

# FURNACE-COOLING COMBINATIONS (Continued)

_	ž ž	(ID.)		677	717	830	850	1027	1049	1087	1107	989	728	833	854	1046	1040
	Ur Filler	Size (in.)		16×25	16x25	16x25	16x25	16x25	16x25	20x25	20x25	16x25	16x25	16x25	16x25	16x25	14-26
	-	No.		-	-	2	8	64	~	2	2	-	-	2	2	8	c
	Refrig.	No.		22	22	22	22	22	22	22	22	22	22	22	22	22	9.9
	Sell Re.	Kows		4	4	7	4	4	*	*	*	4	4	7	4	4	
	Face Area	(3q. H.)		2.3	2.3	2.9	2.9	4.3	4.3	4.3	4.3	2	2	2.9	2.9	4	
	Cond.	lype		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	a v
	Motor	H		1/2	1/3	2/2	1/2	3/4	3/8	3/8	-	%	1/2	1/2	3/4	3/6	3/.
	Blower	No.		1	-	-	-	-	-	~	-	-	-		-	*	
	1	KP PM		096	935	864	765	776	785	814	845	096	935	864	765	776	784
	Evap. Blower	Crim		925	1234	1543	1851	2160	2469	2777	3086	925	1234	1543	1851	2160	2777
	2	- 1	"mpqu	-	-	-	-	-	-	_	-	1	_	_	-	-	-
-	for	AGDITON	er & Bur	230	230/220	230/220	230/220	230/220	230/220	230/220	230/220	230	230/220	230/220	230/220	230/220	230/220
	Apressor Ma	rhose	- "Berg	-	7	7	7	7	7	~	7	-	7	7	7	7	1
	3	-	on, Pa.	13/4	2	9	m	sn.	80	2	2	13/4	2	en	m	10	8
	1	MUNIC	He Vern	1	_	-	_	-	<b>j</b> =	ĝ=	-	<b>j</b> =	je	-	-	1	ĝen
	mpressor	RIVE	n St., Be	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
	0	1,750	th & Mai	I	I	I	I	I	I	I	I	I	I	I	I	H	X
	Gas or	000	iv., Four	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Ges	Gas	Gas	Ges	Cons
Heating	STUH	Corpor	orger Furnace L	900'09	80,000	100,000	120,000	140,000	160,000	180,000	200,000	900'09	80,000	100,000	120,000	140,000	140 000
	Capacity	1019	Corp., B	17,900	22,500	33,500	33,500	000'09	900,00	900,09	900'09	17,900	22,500	33,500	33,500	900,09	40 000
-	Model	No.	Burnham	BGK75V	ILGK 100V	BGK125V	3GK150V	3GK175V	8GK200V	3GK225V	JGK250V	3GK75R	BGK100R	1GK125R	1GK150R	1GK175R	SCK SOOF
A	IR C	00	NC	DI	TI	0	NI	N	G				М	A	RC		1,

## HEAT PUMPS

No.	Capacity 8TUH	Capacity BTU/HR 20° F	W Cobi	Cabinet Size (In.) H	n.)	Type	Compressor	Make	*	Phase	Compressor Motor Phase Voltage	Š	Evap. Blower CFM	EPM.	Blower Moter No. HP	Moter	Cend. Type	Fuce Area No (Sq. Ft.) Roy	. 5	Refrig.	Air Fi	Air Filter Size (In.)
Lennox	Lennox Industries.	Inc., Marshalltown,	halltown.	- lowe -	- "Lennox"	,,XC																
PM.21	22.000		291%		3946	I	1725	-	8	-	230	-	006	1125	-	77	*	1.87	47	22	-	12×24
RM-41	36,000	37,300*	361/4	241/2	477%	I	1725	-	4	-	230	2	1505	1125	-	2	~	2.69	*	22	-	1x14x28
°at 35° F.	· F.																					
Mercury	Mercury Div Lord	d & Palmer.	Inc., Belding.	Iding. M	Mich	"Mercury	4,1															
HP2-201	22.000		301%	221%	33%	HS		EW	2	-	230	:			;	*****	AR		,	22	1	
HP3-301	35,000	22,000	481/6	241/4	33"1/6	HS	1725	T or C	•	_	230	2	***********	*******		-	AR			22		
HP3-303	35,000	22,000	481/6	241/4	33 1/4	SH	1725	TorC	•	69	208/220	2	**********	***************************************	;	1	AR			22		
HP3-401	45,000	29,000	587/4	241/4	3311/4	HS	1725	TorC	4	-	230		*********	********		****	AR			22		***************************************
HP3-403	45,000	29,000	587/4	24%	33'1/6	SH	1725	TorC	4	0	208/220		Anthony	*********	:	-	AR			22		
HP3.501	55,000	36,000	58%	28	3711/4	SH	1725	T or C	W)	-	230	:	********	**********	1		AR	*******		22	**	
HP3-503	55,000	36,000	58%	28	371%	SH	1725	TorC	40	0	208/220		********	**********	:	****	AR			22		**********
Gibson B	lefrigerate	Refrigerator Co., Div. of Hupp Corp., Greenville, Mich	of Hupp	Corp.	Greenv	Ille, Mic	1	"Gibson"														
GO-21AH	21,000	000000000000000000000000000000000000000	29	24	49	I	*********	B-W	2	_	230	-	700	1070	-	%	*	1.75	4	22		
GO-31AH	34,000	************	29	24	49	I	*******	8-W	(2)13/2	-	230	-	1100	1450	-	3/4	*	2.33	10	22		***************************************
GO-50H	51,000	• 500 500 500 500	36	30	70	I	0.0000000000000000000000000000000000000	8-W	(2)21/2	-	230		1700	*********	-	1/2	<	3.61	15	22	***	***********
Round O	ak Co. In	Round Oak Co. Inc., Dowagiac, Mich.	ac, Mich.																			
CPA-3-1	34,000	16,000	25	641/5	27	I	1725	<u></u>	•	-	230	-	1200	-	-	1/2	*	2.65	*	22		0x20
CPA-5	85,000	30,000	48	72%	32	I	1725	<u></u>	•	-	230	-	1200	***********	-	3/4	4	3.7	7	22	-	20×25
Above unit	are self-con	Above units are self-contained free standing.	standing.																			
CPA-373-1	36,000	20,000	37 1/4	27	37 1/4	I	1725	<b>6</b> —	m	ģen.	230	-	1200		-	1/2	4	2.65	*	22		0x20
CPA-504-1	58,000	31,000	37%	27	371/4	I	1725	-	0	-	230	-	1200	*********		3/4	*	3.7	4	22		20x25
Above units	Above units are remote type units.		*Condensing units only.	mits only.																		
Peerless	Corp. 18	Peerless Corp., 1853 Ludiow, Indianapolis, Ind.	Indiana	polis, in		"Climo-Pump"	"dm															
CPA-3-1	34.000	16.000	25	641/5	27	I	1725	-	10	7	230	-	2000		2		*	5.2	*	22	2	0×20
CPA-5	55,000	30,000	48	72%	32	*	1725	-	10	7	230	-	1950		-	%	4	4.7	-	22	2	16x25
Above units	gre self-con	Above units are self-contained - free standing	standing.																			
CPA-373-1	36,000	20,000	3714	27	37 1/4	I	1725	<b>j</b> =	50	7	230		2000	*********	2	_	4	5.2	4	22	2	20×20
CPA-504-1	58,000	31,000	371/4	27	37 1/4	I	1725	_	10	7	230	-	1950	***************************************		1/2	*	4.7	4	22	2	6x25

109

910

22

3.21

2

1125

1200

1103-4 31,000 99-700\*10 377/10 76/14 H 1750 T 3 1 230 1103-4 178,500 BTUH (21KM) Supplemental Electric Heather. \*\*Includes 78,500 BTUH (21KM) Supplemental Electric Heather.

Airtemp Div., Chrysler Corp., 1600 Webster St., Dayton, Ohio -- "Airtemp"

HEAT PUMPS (Continued)

Medel No.	Capocity	87U/HR 20° F	W Cab	Cobinet Size (In.) N	o Cul	Type	Compresso	Make	3	Compressor Maler Phase Vollage	Voltage	No.	Evap. Blower CFM	W.	Blower Me	Motor Co	Type (Sq	(Sq. Pt.) Rows	. Kefrig.	g .	Air Filter Size (In.)	6.0
Typhoon H	Heat Pump	p Co., Div.	of Hupp	pp Corp	2001 G	Gardie A	re. P. O.	Box 1123	. Tampa	Fla	- "Prop-R-	Temp"										
	31,000	38,700	34	3	26	I	1750	-	2	7	220	1	1000	773	1 1			75 4	22	-	25x20	
	45,200	57,700	24	3:	26	r	1750	-	es •	7:	220		1400	795				99	22		25×20	
2000	72 300	007 70	28 22	7.6	30	2	1750	1 (4)	• •	11	220		2400	808	- 4			74	3.5	4 -	30.26	
	90.400	115.400	461%	99	36	I	1750	T(2)		7	220		2800	929	-			3	22	. ~	25x20	
	125,000	156,000	55	76	90	3	1750	U	01		220	2	4000	079	-			4	22	24	30x25	
	144,400	177,200	5.5	26	30	I	1750	(2)1	0	7	220	64	4800	703	-			8	22	24	30×25	
225-2H	191,000	230,000	22	76	2 5	5 3	1750	(2)0	2 5	m •	220	P4 6	0009	740	ž.	* 3				P0 4	30x25	
	310,000	374,000	A3	0.0	33	3 3	1750	310	2214	9 69	220	7 6	8800	099					22	* *	25x20	
	346,000	450,000	78	92	4.5	S	1750	(3)C	30	0 (*)	220	. ~	12.000	280	9 647				22	-	25×20	
	492,000	605,000	2		94	FS	1750	(4)C	9	•	220	2	14,000	620	1 77				22	-	25×20	
	36,150	31,000*	211/2**	211/5	42 1/2	I	1750	-	-	7	220	_	1200	785	-			9	22	-	18x18	
AS	90,000	49,200	25 1/2		20%	r	1750	- 1	ni	7.	220		2000	95				9.	22		22×22	
	86,100	73,200	60,00		22.5	5 3	1750	) (	10.		077	- •	7900	940					77	N C	18x18	
	20,400	43,300	25.75		2.5	5 3	1350	) >	2 *		230	4	-	2					3 5	4	24844	
	13 400	64.76	3.6		37	5	1750	- +	40	11	330	:	********	**********		. 3	-	1	3 55	2	***************************************	
WWAGH	49.300	86.600	28		28	3	1750	-	w	7	220	: 1				*		2 1	22	2 1	***************************************	
	92,300	115.500	28		28	3	1750	U	00		220					*			22			
	120.000	150,000	28		28	3	1750	U	10		220		***************************************			*			22			
160		232,500	62		35	HS.	1750	(2)C	15		220	: :	200	***************************************		*			22			
		294.000	62		35	£	1750	(2)C	20	7	220			*******		*			22			
		371.800	62	99	35	35	1750	(3)C	25		220	: :	1	*****		*			22			
WW450-3H 3		445.000	62		35	HS	1750	(3)C	30	9	220			*******		*	-		22			
		402,000	84		45	#55	1750	(4)C	40	0	220	. 8		00000		*			22			
WW750-5H		731.000	1		4.5	HS	1750	(5)C	90	**	220			-		*			22			
- 6	-		Sixes of 1	ade		35	4	are water h	air units.	Models	A3 through	A10 are	air to air wa	in. M	edels WW35H	Ihroug	WW750-5	H ore with	or to wate	w waits.		
Mathes Co.	Biv. of	Gion Aiden	les Corn	1501	E. Brook	dwav. F	Fort Worth	Toros	". Mot	"sou												
WAR-15MP*	24 000	16 300		33	-		-	W. W.	2.0	-	010/300		S.CO	900	71 1				99		1-96-9	
THAR. IEHP*	27,000	18 000**	5 15	31	27	I	1725	W.W	2.5		208/230		1300	909		3	3.0	9 61	22	-	1 2002	
HAR. TEMP*	32 000	23 400**	30	23	24	=	1725	-	3.4		208/230		1000	1050					22	-	1.20.2	
HAR-1EHP*	36,000	25.000**	53	31	27	I	1725	-	3.6	_	208/230	_	1300	009	3			0	22	-	1×20×2	
HAR-1EHP*	42.000	26.000**	51	31	27	I	1725	B.W	(2)2.3		208/230	-	1400	675	1				22	-	1x20x2	
HAR-1EHP*	50,000	28,000**	51	31	27	I	1725	B-W	(2)2.5	-	208/230	_	1600	750	1			6 9	22	2	1x16x2	-
HAR-1 EHP*	62,000	42,000**	19	31	27	I	1725	_	6.2		208/230	-	2000	825	1 1/4			9	22	2	1x16x2	
90HAR-2EHP* 90,000	90,000	\$8,600**	7.5	43	27	3	1725	o	6	2	208/230	_	3000	909	1			3	22	6	1x16x25	
120HAR-	120.000	70 000**	7.5	67	27	HS	1725	0	12	0	208/220		4000	200		A	11		33	*	1×30×35	
								,												,		
	24,000	14,000**	321/4	211/2	201/2	I	1725	M-9	2	_	208/230		850	1090	1 1/4	¥	2.5	6	22	-		
38HAM.	36.000	25.000**	46	26	9	*	1725	-	3.6	_	208/230	-	1300	1000	1 1	*	9	*	22	-	1×30×25	
** tdH3	90000	0,	52	30	28	I	1725	-	6.2	_	208/230	-	2000	825		*	3.0	4	22	5	1x16x25	
Also available	available in 3 phase.		siun per	#Packaged units (affic type).	Does	not include	de supplemen	ntory heat.														
Carrier Co	Corp., 300	S. Geddes	54.	Syracuse,	N. Y.																	
6497	31,900	20.200	32%	21	42	I	1750	0	69	7	230/	-	1200	715	1 1/2	AR	4.28	2	C-500	2	16x20x1	
								,			230/											
4079	90,800	35,500	36	22%	483/6	I	1750	0	89	7	208/220		2000	910	1 1/2	AR	5.15	15 2	12	2	20×20×1	
Forston Co.,	Mfg.	1400 Conti	St. H	ouston, T	exas —	"Forsto	". "Lin	"coln"														
	000	16,218		241/2	311%	I	1725	-	2	-	230		900	1050	1 1%	A	2.75	.5 4	22	1	14x20x1	
30083815	36,000	26,712	291/2	251/2	3514	I	1725	<b>-</b>	0	7	230/208	-	1450/	1050	1 %	AB	3.16	4	22	-	16x20x1	
	20.000	***	78.87	7007	7007	3	408.				200 / 200		2000/	207			,		3			
20082815	90,000	44,520	41 %	43%	42%	E	1725	-	0	7	230/208	_	3000/	483	-	*	4.27	*	22	-	PXZ3x	
750R71/18LS	90,000	62,116	413%	43%	42%	I	1750	v	21/2	9	230/208	-	3400	900	1 %	W	5.47	4 0	22	-	181/2×28×1	_
Onnease 1													/0007									
	20 000	040 00	22	46.07	4.4	3	1980		10		200/000		7700	500	1 67	4.0	27 0	,	9.0		94-90-1	

WKA30  W	2310 Cool	Coolidge Ave.,	2	Type	RPM	Make	5	Compressor Motor Phase Voltage	Veltuge	ě.	Evap. Blower R CFM R	RPM	Blower Motor No. HP		Cond. Fo	Face Area No. (Sq. Ft.) Rows	Refrig.	- S	Air Filter Size (In.)	W.
March   Marc			-		- "Weatherking	erking"														
KAA10  10,000  11,000  KA135  11,000  111,000  111,000  114,000  114,000  114,000  114,000  114,000  114,000  124,000  126,000  127,000  1	-	32	26	E 3	1750		6 4	7:	220		1400	795	22				22	- 0	20x25x1	720
KA73 96,000 117,000 KA1400 116,000 114,000 KA1400 116,000 114,000 KA1400 116,000 124,000 KA100 126,000 126,000 KA100 126,000 126,000 KA1000 126,000 126,000 CA1000 126,000 126,000 CA10		36	26	I	1750	- 5-	9 90	17	220	-	2400	099					22		16x25x1	=
KA1100 111,000 141,000 134,000		56	26	SH	1750	*	71/2	•	220	-	3500	568	3%				22	0	16x25x1	13
(3300 197,000 244,000 (324,000 (324,000 (324,000 (324,000 (324,000 (326,000		36	26	3	1750	u :	010	es (	220	N "	4800	099	25				2 6	m 4	20x25x1	17
(2000 17,000 82,000 17,000 17,000 82,000 17,000 126,000 176,100 176,10		90	26	H 3	1750		(2)7 1/3		220	٠.	1400	206	7 7				22	0 -	20x25x1	R
125,000   126,000   127,200   127,		78	26	E	17.50	-	*	7	220		2400	099					55	m	16x25x1	10
(11,000 124,000 140,000 (224,000 222,0		7.8	26	ES.	1750	*	71/2	60	220	-	3500	568	1 %				22	0	16x25x1	12
1500   204,000   222,000   220,000   231,000   240,000   232,000   236,000   236,000   236,000   236,000   236,000   236,000   236,000   236,000   236,000   236,000   236,000   237,200   24,300   24,300   24,300   24,300   24,300   231,000   23		78	26	HS:	17.50	u i	10		220	~ 6	4800	099					22	7	20x25x1	15
2300 331,000 466,000 390,000 476,000 530,000 532,000 530,000 532,000 136,000 37,200 14 37,200 17,200 14 37,200 17,200 14 121,600 117,300 15 121,600 117,300 15 121,600 118,100 15 121,600 17,000		2 3	53	E E	1750	U	(2)7 1/2	n m	220	7 64	8000	658	63		· ·	17.0 5	22	0 -0	20x25x1	27
22500 331,000 406,000 23000 739,000 476,000 24000 739,000 246,000 250,000 530,000 646,000 14A 24,300 37,200 14A 37,200 47,400 14A 37,200 778,700 14A 37,200 178,700 14A 242,600 178,100 14A 242,600 3316,100 14A 242,600 3316,100 15E 25 hp, 30 hp end 30 hp enstinghouse Electric Constitution of Temote Period S2,000 25C 49,500 72,500							(2)10										1			-
24,000 379,000 452,000 150,000		7.0	73	33	1750	U	(1)5	m •	220			354		- 3			22	0	20x25x1	3,
### 190° F. ***175° Water.  #### 190° F. ***175° Water.  1.A		2	25	E 5	1750	ں ر	(4)10		220	- 4	16,000	658	3 6	3	M.	34.0 5	22	12	20x25x1	2000
##illan Comfortaire H4  1A 24,300 37,200  1A 37,200 47,400  1A 60,800 78,700  1A 60,800 78,700  1A(uel.) 94,700 117,300  1-1A(uel.) 121,600 158,100  1-1A 121,600 158,100  1-1A 242,600 316,100  1-1A 242,600 316,100  1-1A 36,000 72,500  1-2A 72,500 98,500  1-2A 72,500 98,500  1-2A 72,500 98,500  1-2A 72,500 98,500  1-2A 49,500 17,500  1-2A 12,600 17,500  1-2A Sutton Corp., Inc., Inc.	-	79 1glon.	11	HS.	1750	U	01(9)		220	64		354		-			22	18	20x25x1	82
1A 24,300 37,200 1A 47,400 1A 60,800 78,700 1A(rel.) 94,700 117,300 1A(rel.) 121,600 158,100 1-1A 121,600 158,100 1-1A 242,600 316,100 1-1A 242,600 316,100 1-1A 242,600 71,500 1-1A 242,600 71,500 1-1A 242,600 17,000 1-1A 242,600 17,000 1-1A 242,600 17,000 1-1A 242,600 17,000 1-1A 24,000 72,500 1-1A 49,000 72,500 1-1A 49,000 17,000 1-1A 32,600 17,000	eat Pumps.	Inc., P.	O. Box 5897,	1897, 1505	Miami	Rd., Jac	Jacksonville,	Flo	- "McMillan"	Han"										
1A 37,200 47,400 1A(rel.) 94,700 117,300 1-1A(dual) 121,600 158,100 1-1A 121,600 158,100 1-1A 242,600 316,100 1-1A 242,600 17,000 1-1A 242,600 17,000 1-1A 24,500 98,500 1-1A 24,500 17,000 1-1A 18,500 17,000 1-1A 38,500 17,000		59.65	22 14	SH	1750	U		-	230	:	800	200	%	3		1.875 6	12	-	20x15x1	910
1A 87,300 47,400 1A 60,800 78,700 1A(sel.) 94,700 117,300 1-1A 121,600 158,100 1-1A 121,600 158,100 1-1A 242,600 316,100 1-1A 242,600 316,100 1-1A 242,600 72,500 32C 49,500 67,000 32C 49,500 98,500 1-73A 72,500 98,500 1-73A 72,500 98,500 1-73A 72,500 98,500 1-73A 72,500 17,000 1-73A 1-7,500 17,000 1-7,100 17,000 1-7,100 17,000 1-7,100 17,000 1-7,100 17,000 1-7,100 17,000 1-7,100 17,000 1-7,100 17,000 1-7,100 17,000 1-7,100 17,000 1-7,100 17,000 1-7,000 17,000 1-7,000 17,000 1-7,000 17,000 1-7,000 17,000 1-7,000 17,000 1-7,000 17,000 1-7,000 17,000 1-7,000 17,000			1						000			500-	117	3		2 00 0			26-30-1	070
1A 60,800 78,700 1A(rel.) 94,700 117,300 1-1A 189,400 138,100 1-1A 189,400 231,000 1-1A 242,600 316,100 1-1A 242,600 316,100 1-1A 242,600 316,100 1-1A 242,600 316,100 1-1A 242,600 17,200 1-1A 24,600 17,200 1-1A 18,500 17,200 1-1A 18,500 17,000	32%	70%	27.74	24	1/30	0	,		730	:		900				8.0	7	-	20x15x1	4
14(esl.) 94,700 117,300 1-14 121,600 138,100 1-14 242,600 231,000 1-15 242,600 316,100 1-15 242,600 316,100 1-15 10,300 1-15 10,300 10,300	43%	761/2	24%	HS	1750	U	wn	8	230		2000	200	1/2	*	>	5.00 6	12	-	20×20×1	1230
11,14(dual) 121,600 158,100  11,14 121,600 131,000  11,14 242,600 316,100  11,15 he, 30 he and 30 he estinghouse Electric Constitution of 72,500  22C 36,000 772,500  22C 49,500 98,500  22C 49,500 17,500  22A 72,500 98,500  22A 72,500 98,500  22A 72,500 17,000  23A 72,500 17,000  23A 72,500 17,000  23A 36,500 17,000  23A 36,500 23,500  23,500 33,500  23,500 33,500  24. Sutton Corp., Inc.,	98	7.0	27%	SH	1750	o	71/2	60	230		3000	200	3/4	W		7.50 6	12	~	25x20x1	1900
11.4 121,600 158,100 1-1.4 189,400 231,000 1-1.4 242,600 316,100 1-1.5 hp, 30 hp and 30 hp estinghouse Electric Constitution 3,000 67,000 13.3 36,000 72,500 12.5 49,500 72,500 12.5 73.4 72,500 98,500 12.5 14 22,600 17,000 13.4 22,600 17,000 13.4 49,000 33,500 13.5 14 49,500 33,500 14.5 14.5 14.5 15.5 15.5 15.5 15.5 15.5	573/4	80	293/4	SH	1750	U	10	m	230		4000	200		*		9 00.01	22	100	20x16x1	2040
1.1 189,400 231,000 1.1 242,600 316,100 1.5 12 hp, 30 hp and 30 hp estringhouse Electric Constitution 22C 36,000 72,500 22C 49,500 72,500 23C 73C 73C 72,500 23C 73C 73C 73C 73C 73C 73C 73C 73C 73C 7	3/4.48	22	29%	SH	1750	U	(2)5	60	230	r	4000	700		×		9 00.01	12	10	20x16x1	2040
1-1	80	93	34	HS	1750	o	(2)71/3	9	230	:	0009	308	11/2	*		14.90 6	12	400	25x20x1	3050
TE: 25 hp. 30 hp and 50 hp or stringhouse Electric Co .33.A 36,000 67,000 52C 49,500 72,500 98,500 100cor section of remote hear particles and 22,600 17,000 21AH 22,600 17,000 31,500 21AH 4,000 33,500 23,800 6.28 39,000 ***	80	8	4	SH	1750	U	(2)10	9	230	:	0008	700	2	*		20.60 6	22	N 60 -	20x25x1	4400
ghouse Elect 36,000 36,000 49,500 77,500 27,500 22,600 36,500 49,000 49,000 37,000 37,000	and above uni	is monufacture		specifications.															KOKKOKI	
36,000 49,300 77,300 rsection of remote 12,600 49,000 49,000 39,000 39,000		Air Conditioning Div.,	Div. P.	. O. Box	r 510, Staunton.	nton, Va.	1	"Westinghouse"												
36,000 49,500 77,500 section of remote ion Industrie 22,600 36,500 49,000 49,000	34	39%	32.	HS.	1750	0	8	7	208/220		2350	675		*	22	2.6 4	22	2	16x20x1	3000
49,300 77,500 section of remote to Industrie 22,600 36,500 49,000 utton Corp., 23,300 35,000	4 49%	743/4	287/6	75	1750	0	6	1_3 20	208/220	- :		1	25.	*	69	3.0 4	22		20x25x1	1050
77,500 section of remote to a language of remote 22,600 36,500 49,000 49,000 23,500 39,000 39,000			28%	HS	1750	0	wy	1 2	208/220	**				4		4.6 4	12		20x25x1 16x25x1	140
ion Industrie 22,500 36,500 49,000 49,000 23,500 39,000	511/5	50%	30.	SH	1750	0	71/2	3 20	208/220	5		Var. 630	1	AR		5.65 4	22	04	25x20x1	325
22,600 26,500 36,500 49,000 utton Corp., 23,500 39,000		0	t With sh	(With standard booster heat	0	35 F outdoor	or ambent.	#Indoa	#Indoor (evap.) b	blower.	#Outdoor (co	cend.) blower	rer.							
22,600 36,500 49,000 49,000 23,500 39,000	of Hupp	ပိ	5 Ivanh	Rd.	ond,		"Perfection	-	AD.	Heat P	66									
49,000 23,500 39,000	29%	23%	49%	x 3	1725	N	2 121127		230	-	900	1070	22	< -			22	1	***************************************	32
23,500 39,000		30	64%	E			(2)2		230	-		120		* *		3.61 5	22	1 1	***************************************	625
08-2R 23,500 **	Inc., 1812 W. Second St.,		Wichita, Kan.	Kan	"Vornado"															
OC-2R 39,000 *	291/2	203/4	391/6	I	1725	-	(2)1		230	_	785 11	1120	1 1500	¥		1.9 3	22	gan	12×24	352
Reverse cycle heat only. Excluding any strip heaters.	361/4 g any strip he	2	**For evaporator and cond	H for and cor			7,1(2)	-	230	64		20					22	-	14x28	517
Mitchell Mfg. Co Div. of	Cory Corp., 3200	1 8	W. Peterson	rson Ave.	e., Chicago,	= :	"Mitchell"													
18,500			311%		-	- 1	13%		230		550 10	1075	1 1/2	4		2.14 3	22		231/6×145/6×1	217
37,000		24%	77	r	1773		271%		230	×		050	1/4	•			77	-	Z/XII % XI	

**HEAT PUMPS (Continued)** 

# PACKAGED WATER CHILLERS

Model No.	Average Tonnage Capacity	*	Cabinet Size (In.)	a	Type	Compressor	Make	ŧ	Compressor Motor	rr Motor Phase	Veiture	Refrig.	W Zer
Cool-Erre, Is	Cool-Ette, Inc., 20080 James Couzens Highway, Detroit, M.	Duzens	Highway, Detroit, 1		"Liquid-Ice"								
1WC2W*#	2	271/4	293/4	201/4	I	1725	-	3	1725		230	22	250
1WC3W*	m	271/4	293/4	201/4	I	1725		6	1725	7	230	22	308
1WC5Wt	50	37	36%	221/2	I	1725	1	8	1725	-	230	22	431
3WC5W#	57	37	363/4	221/2	I	1725	-	15	1725	0	230	22	421
*Available as pa	Available as package units, air cooled condensers.	denters.	‡Available for remote air		ndensers.								
Worthington	Northington Corp., Ampere Station, East Orange, N. J	ion, Ec	1st Orange, N. J	. "Worth	ington"								
RWW-400	2.8	443/4	32	26%	т.	17.50	0	6	1750	7	208/220/230	22	523
RWW-600	4.6	443/4	32	26%	÷	1750	0	49	1750	7	208/220/230	22	637
1CP8-8	7.5	58	341/2	20		1750	0		1750		208/220	22	1200
LCP6-10	10	58 1/8	373/4	24	*T	1750	0	(2) \$	1750		208/220	22	1400
LCPR-15	87	09	381%	283/2	*#	1750	0		1750	89	208/220	22	2000
*Accessible													
Vic Mfg. Co.	fle Mfg. Co., 1313 Hawthorne Ave.,	-	Ainneapolis, Minn	- "Vic"									
84	2	59	15	35	SH		U	2	***************************************	7	220	12	089
85		59	51	35	SH	***************************************	v	0	MARKANA	7	220	12	200
90	80	65	51	35	SH	***************************************	v	35	*********	8	220	12	770
80	71/2	59	51	35	SH	NAME AND ADDRESS OF	J	71/2	***************************************	3	220	12	850
9.6	10	89	15	35	HS.	***************************************	O	10		3	220	22	1000

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253		1000	1200	2100	3100	3400	2000	8500	0009	8700	10,000	14,050		3000	4960	5150	6750	7850	12,000			2400	2600	3200	4200	4700	6200	8000	10,600	11,000	12,000		***************************************	*********		********	*******	**********		************	********	***************************************			2000	2000	2000 2100 3000	2000 2100 3000 3000	2000 2100 3000 3000 3900	2000 2100 3000 3000 3900 5200	2000 2100 3000 3000 3900 5200
Refrig		22	22	22	22	22	22	22	22	2 2	22	32		22	33	22	22	22	22			12	22	33	22	22	2 2	22 22	22	22	77		2 2	33	7 27	12	22	12	22	22	12	2 22	:		5	12	12	2222	2222	222223	222222
Valence		220	220	220	220	220	220	220	220	220	220	220		220	220	220	220	220	220			208/220/440	208/220/440	208/220/440	208/220/440	208/220/440	208/220/440	208/220/440	208/220/440	208/220/440	408/440/440		208/220/440	208/220/440	208/220/440	208/220/440	208/220/440	208/220/440	208/220/440	208/220/440	208/220/440	208/220/440	1024/002		990/440	220/440	220/440 220/440 220/440	220/440 220/440 220/440 220/440	220/440 220/440 220/440 220/440 220/440	220/440 220/440 220/440 220/440 220/440	220/440 220/440 220/440 220/440 220/440 220/440
Motor		6	n	n m		es e	0 00	m	0	0 0	rs en	. 17		e (	9 67		m	0	19 61			6	m	m (	n m	6	m (	P) (7)	0	es 1			0 0	7 0	2 60	m	n	9 67			6	e e	,			m et	e e e		****	~ ~ ~ ~ ~ ~ ~ ~ ~	<b>~ ~ ~ ~ ~ ~ ~</b> ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Compressor Motor		1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	17.50		1750	17.50	1750	1750	1750	1750			1750	1750	1750	1750	1750	1750	1750	1750	1750	1/30		0911	1750	1750	1750	1750	1750	1750	1750	1750	1750	200		1250	1750	1750 1750 1750	1750 1750 1750 1150	1750 1750 1750 1150 1750	1750 1750 1750 1150 1750	1750 1750 1750 1150 1750 1750
9		49	5/12	10 10	20	25	2 9	90	9;	73	125	130		10	20, 7, 7, 20	25	30	9	8 %	3		10	15	9 2	30	40	05	25	100	125	130		7%	91	200	25	30	20 08	9	75	100	125	000		5	10	10 10 20 20	2022	30 50 5 30 5 3	25883	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Moles	Chiller"	U	U	o u	M-W	A-0 =	A-6	B-W	W-W	M-9	8-W	8-W		U	3	W-8	M-W	A-6				0	0	0 (	00	0	01	00	0	00	0		0 (	00	00	0	0 (	0 0	0	0	0	00	)		,	00	000	0000	00000	000000	0000000
Compressor	13		1750	1750	663	1167	711	870	950	525	715	710		1730	1/30	1167	466	711	870	-		1750	1750	1750	1750	1750	1750	1750	1750	1750	1/30		0911	1750	1750	1750	1750	1750	1750	1750	1750	1750	200			1200	1200 1750 1150	1200 1750 1150	1200 1750 1150 1150	1200 1750 1150 1150 1750	1200 1750 1150 1150 1750 1150
Prose	12	SH.	SH	H 35	0	00	00	0	0	0 (	00	0	er aperation.	**	E C	00	0	0	00	)	Generator"		0	0 (	00	0	0	00	0	0	0		0 (	0 0	0 0	0	01	00	0	0	0	00	)			00	000	0000	00000	000000	000000
	Philadelphia		26%	26%	32%	32%	391/2	391/2	42	53%	53%	553%	towar or city wat	37.4%	41.94	481/4	53%	%09	60%	70.00	"Trane Cold		25	30	28	29	70	63	27	74	80		82	82	8.6	92	26	88 88	9 40	102	108	112	27	1 2	"Thermatrol"	I E	1 E	1 E	I E		
Cabinet Size (In.)	7900 Tahor Bd	36%	38%	53%	09	62%	70%	70%	70%	70	84%	%86	s, for either cooling	9/619	73%	77%	84%	%06	105%	condenser.	LaCrosse. Wis	98	63	67	75	76	99	85 S	63	69	69	ion Grove, III.	98	9 3	9 3	288	62	62	99	65	89	99	7.5	lad _	Ind.	Ind. —	10 0. 12 12 12 12 12 12 12 12 12 12 12 12 12	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	18.4.4.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	18. 27. 77. 75. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	18d. –
3	Com	97.29	671/6	68%	133%	1221/2	137%	161%	126%	141%	191%	186%	cooled condense	95%	113%	1247/4	136%	145%	187%	ě	Ave.	70	79	66	119	120	117	127	144	133	154	Austin, Morton	29	20	32	36	99	9 5	40	46	46	8 4 6	40		or, Evansville,						
_	Condicioning												th water-							with built-in	Cameron											8200 N. A.												Cause	Governor	Govern	Govern	Govern	Govern	Govern	Govern
Average	V	ž	7.5	10.0	18.9	23.6	40.5	50.0	55.1	74.3	100.5	148.0	equipp	10.0	13.0	23.4	30.4	40.9	51.0	equipped	Second &	10	15	30	30	40	90	8 2	100	120	150	Co.	71/2	0 :	13	25	30	0 9	8 9	75	100	125	130	1011	Inc., 1101 N	101	10 c c c c	9 6 6 9 9	28.5.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.	28.28.28.38.38	28 28 38 38 38 38
199	Injend Contact		CW-71/2	CW-10	CW-20	CW-25	CW-40	CW-50	CW-60	CW-75	CW-100	CW-150	All above models	ICA-10	CA-15	CA.26	30	40	9.50	All above models	frane Co S		78	88	86	**	87	CG2A6	A10	A12	CG2A16	Jell & Gossett	71/2	01	20	25	30	07	90	75	100	125	130		acke,	acke,	acke,	cke,	cke,	cke.	cke.
Mo	=		DI.		_			Ö	N	2	25	20	All	2	5	3 2	06.43	ICA-40	5.5	2 =	1 2	CGB4	CG284	CGBB	CG2BB	CG2A4	CG	90	000	CG2A12	CGS	100	P1C-71/2	PLC-10	PLC-15	PLC-25	PLC-30	PLC-40	PIC-40	PIC	PIC	PLC-125	717	Cal	Sch	Schm CT-10	Schno CT-10 CTD-13	Scha CT-10 CT-10 CT-10 CT-20 CF-20 C	25 25 25 25	Schno CT-10 CT-13 CF-20 CFD-30 CFD-30 CFD-30	Schna CT-10 CT-13 CF-20 CFD-30 CFD-30 CFD-40

PACKAGED WATER CHILLERS (Continued)

20.00						Company of the last			Contractor and Contra	and the second second		Madrin.	
Model No.	Capacity	M	H H	q	Type	KPM	Make	H.	RPM	M Phone	Vellage	No.	(36.)
National-U.	S. Radiator Corp.,	., 944 Ash St., P.	. P. O. Box 1047,	47, Johnstow	n. Pa "C.	Capitolaire"							
201-CW*	8	23%	27%	75.61	2	1725		8	1725	7	220/230	22	249
303-CW	6	23%	27%	76.21	2	1725	-	6	2271	7	220/230	22	304
903-CW	wg	33	33%	20	I	1725	-	85	1775	7	220/230	22	431
- WG-71/2	44	9 5	# 5	17	3	1750	::	7/2	1750	00	220/440	22	006
WG.20	30 2	129	. 97	300	50	Ver.	-	20 792	1730		220/440	32	2320
WG-25**	2.5	117	35	41	0	Ver.		25	17.50	89	220/440	22	3900
CWG-30**	30	129	75	2:	0	Ver.		30	1750	9	220/440	22	4520
CWG-40**	9	25.	3 2	45	00	Var.		9 9	1750	m e	220/440	22	2800
CWG-60**	3	122	3 3	2 20	00	Var.		90	1750	ים פי	220/440	22	2040
	75	100	67	25	00	Var.		75	1750		220/440	22	7490
Available es oi	air-cooled. "Available with er	de with evaporater	condenser.	"Westinghouse.									
Typhoon Heat Pum	at Pump Co., Div. of	r. of Hupp Corp.,	orp., 2001 Gardie	die Ave., P.	O. Box 1123.	Tampa, Fia.	- "Prep-R-Tem	64.6					
WCJSH	, evi	24	33	24	SH		1	2	1750	7	220	22	410
WC55H	3.6	24	33	24	HS	1750	-		1750	7	220	22	440
WCBOH	5.7	28	7 7	28	# 3	1750	- (	47 0	1750	7.	220	22	720
WC150H	0	28	1 7	78 0	HS	1750		100	1750	5 67	220	27	1300
WC225-2H	15	62	9	35	SH	1750	(2) C	15	1750		220	22	2080
WC300-2H	20	62	09	35	HS	1750	(2) C	20	1750	•	220	22	2280
WC375-3H	22	3 4	3 3	35	# S	1750	(3) (2)	25	1750		220	22	2475
/C600-4H	9 9	2 2	2 2	45	NS SH	1750	(3)	99	1750		220	22	3500
WC750-5H	98	84	77	45	HS.	1730	(5) C	20	1750	9 00	220	22	4200
Airtemp Div.	Chrysler Corp.,	1600 Webster St.,	er St., Dayton,	Ohio -	"Airtemp"								
W312	14.2	130	70	39	SH	1750	0	1.5	1750			12	3700
W512	24.0	130	23	9	HS.	1750	0	25	1750			12	4650
W712	32.0	130	7.4	7 5	E 25	1750	00	9 9	1750			12	2600
W1012	47.1	142	22	75	HS.	1750	00	\$ 99	1750			12	2350
W1212	55.6	142	90	42	SH	1750	0	8	1750			12	8200
W1412	66.1	142	62	77	HS	1750	0	75	1750			12	9300
W322	24.1	130	7.7	200	E 3	1750	00	72	1750			22	4100
W722	55.3	130	78	7	HS.	1750	00	9 9	1750			22	5330
W822	65.5	75-	90	42	SH	1750	0	7.5	1750			22	7450
W1022	97.6	130	82	15	HS :	1750	0 (	100	1750			22	8300
W1422	108.5	144	8.4	2 5	200	1750	00	136	1750			22	0066
SW1303-3	3.0	46	69	2	HS.	3500	00		3500			22	200
SW1305-2	5.3	49	40	20	35	1750	0	47	1750	•		12	880
SW1308-2	2.6	64	40	20	TS :	1750	0	21/2	1750			22	1100
SW1311	2.0	000	2 5	28	E 3	3500	00	0.0	3500		• •	22	1200
SW1320	20.9	90	62	34	E 55	3500	00	(2) 10	3500			22	2700
SW1325	24.0	40	63	76	3	2800	•	01 (1)	9100				0000
SW1330	20.00	9 9	64	37	# #s	3300	00	(2) 15	3500			2 22	3200
As Required.													
merican Ca	American Coils Co., Farmingdale,	N. J	"ACI"										
ACI-A-30	es 1	251/2	32	351/4	HS.	1750	U	6	1750	7	208/220	12	550
ACI-A-57	200	448%	32	26%	3	1750	U	en i	1750	1-2-3	208/220	12	899
ACI-A-103	10	67	4314	30%	13	1750	٥	7.75	1750		208/220	2 5	1000
AC:-A-150	9 40	9	46.00	96.00	and and	200	,		17.30	77	077/907	71	Occ -
		6.3	47.17	7017	617	1760			1 PAR		000/000		2000

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Model No.	Capacity	A	E	9	ad A	Krw	MGN/8	H	W.W	FROSe	adous	- Out	(19.)
Carrier Corp	Corp., 300 S. Geddes St.,		Syracuse, N. Y.										
	2.9*	451/2	363%	24%	HS	1750	0	0	1750	7	208/220/440	22	770
30ES	4.7*	67%	34%	24%	H 3	1750	00	71%	1730	77	208/220/440	12	1040
30510	9.0	6.8%	45	27	HS.	1750	0	10	1750	7	208/220/440	22	1270
30E15	14.6	93%	531/2	29	SH	1750	0	(2) 71/2	1750	7	208/220/440	22	1830
30£20	-61	93%	58	29	HS :	1750	0 (	(2) 10	1750	7:	208/220/440	22	2440
30K25	24.	600	20	22	98	1750	00	52	1750		208/220/440	22	4180
30K30	17.8*	103	2 22	27	3	1750	00	9	1750	77	208/220/440	22	5260
30K50	48.8*	148	78	3.	SH	1750	0	90	1750	72	208/220/440	22	9300
30K60	57.2*	148	78	16	HS	1750	0	09	1750	7	208/220/440	22	6440
30D75	78.6	25	7 :	200	00	1750	00	200	1750		208/220/440	22	0000
300110	123*	791	77	2 2	00	1750	00	125	1750	17	208/220/440	22	11,290
*Capacity at 46	*Capacity at 46 F chilled water off & 105	105 Fcondensing temp.	ng temp.										
Weatherking	of Florida,	2310 Coolidge	Ave., Orlando, Fla.	-	Weatherking"								
WKWC3	91	26	20	26	z:	1750	<b>-</b> -	m ¥	1750	77	220	22	450
WKWCS	717	3.6	2 22	26	2 3	1750	- •	21%	1750	<u> </u>	220	2 2	800
WKWCIO	10	29	52	26	3	1750	U	10	1750		220	22	950
Note: Above unit.	Vote: Above units also available as heaf pumps.		· Worthington.										
Heat-X, Inc.,	Inc., Subsidiary of [	of Dunham-Bush, Inc.,	1, Inc., 179 South S	3	est Hartford, Conn.	m.							
	~	48	33	16	HS.	1750		64	1750	7	230/206/220	12	90
PC-300	0	23	23	9 :	3 3	1750	en a	en 4	1750	7:	230/208/220	12 & 22	900
PC-500	317	3 3	30	9 8	5 3	1730		71%	1750	7	208/220/440	12 & 22	986
PC-1000	10	22	36	28	35	1750		(2) 5	1750		208/220/440	12	1765
PC-1001	10	62	9	9 0	3 3	1750	an is	10	1750	n	208/220/440	22	1150
PC-1500	1.5	08 8	AF OF	28	H.S.	1750		(2) 10	1750	9 61	208/220/440	22 22	2225
C-2000	20	78	62	341/5	0	700	•	20	1750	. 69	208/220/440	12	2560
C-2500	25	7.8	99	36	0	875	•	25	1750	9	208/220/440	12	2710
PC-3000	30	78	99	36	01	683	<b>40</b> 1	30	1750	•	208/220/440	22	2860
C-4000	40	82	K 1	30%	00	280		9 5	1750	m e	208/220/440	33	3380
PC-5000	8 %	0 0 0	7.0	42%	00	875		3 9	1750		208/220/440	22	4770
C-7500	75	28	20%	421/2	0	1070	<b>60</b>	7.5	1750	0	208/220/440	22	5166
PC-10,000	100	69	78	56	0	730		00.	1750		208/220/440	22	9830
PPC-200	04	38	2	16%	HS	1750		,	06/1	7	220/440	22	400
		: :		-	-	0241	•	en	1750		230/208	00	689
RPC-500	w	30	3.4	10.VE	214	06/1		49	1750	1	230/208	77	5
RPC-300	•	90	2.9	16%	35	1750			0000	7	220/440	22	750
ABBC. 200	c	97	26	3.81%	35	1750		,	1/30	7	220/440	22	565
W.L. COO	4	2		"			•	6	1750		230/208		
ARPC-300	6	40	26	38%	3,	1730				7	220/440	7.7	089
ARPC-500	s;	6.5	2.5	391/2	*	1750	•	10	1750	7	220/440	22	8.50
Cond-Air Div.	Cond-Air Div., Elliott Engineering	00	Inc., 10608 Santa Fe,	South	Gate, Calif	"Cond-Air"							
wren		13				1775	U	wy	1775	7	220	22	1100
wOs	7.5	27.	65	32	SH	1725	v	7.1/2	1725	3	220/440	22	1600
VC100	10	74	65	32	SH	1725	U	10	1725	**	220/440	22	2200
WC150	1.5	83	73	3.5	SH	1725	v	(2) 71/2	1725	09	220/440	22	2700
							4		-		4	-	

PACKAGED WATER CHILLERS (Continued)

Carrie Mfg. Ca., 1995 Kleates Ave., St. Louis 20, Mo. — "Carris"   Carris Mfg. Ca., 1995 Kleates Ave., St. Louis 20, Mo. — "Carris"   Carris Mfg. Ca., 1995 Kleates Ave., St. Louis 20, Mo. — "Carris"   Carris Mfg. Carris	Medel No.	Tennage	26.	V	Cabinet Size (In.)	٥	Type	Compressor RPM	Make	44	Compress. RPM	pressor Motor Phose	Vellage	Refrig.	W (ii)
1		Co.	Kienlen Ave.	. St. Louis 2	Mo	"Curtis"									
1	F7C14	7	-	90 5	52	23	0	458	0	71/2	1750		********	22	10000
1	VC14				52	25	0	658	0	71/2	1750	***********	***************************************	12	-
1	10018	0	31		2	25	0	420	0	0	1750	**********	*******	22	- Steers
1	0C18	0	31	99	28	25	0	436	0	10	1750	03554449	100000	12	
15   15   15   15   15   15   15   15	1502	15	14	2	58	25	0	618	0	1.6	1750	011000103	upppers	22	
150   150	SC24	1.5	14	*9	58	25	0	6.58	0	1.5	17.50	***************************************	A PROPERTY OF	13	
154   25   155   58   36   0   408   0   20   175	20C28A	20	15	0	58	25	0	835	0	20	1750			33	-
15	OC28A	20	1.5		58	36	0	408	0	30	1760	0.0000000	00000	3 2	ALCOHOL:
13	2503	25	13	9	58	36	0	380	00	36	1740	6x 0:000 1 1 1	Obsess	2 5	
15	5033	25	13	9	3.0	3.6	00	438	0 0	36	1760	***************************************	0.04000	77	Service
14	30034	30	14		35	34	00	450	0 0	2 10	1750	************	0.000000	2 2	******
15	VC30	30	14		5.8	3.6	0	7	0 0	3 5	1740	************	*********	77	
1	ADCIA	97	1.6	. 0	5.00	3.6	00	085	00	2 9	17.50	BA *******	*********	7 0	
146   50   148   64   54   56   6   170   57   57   57   57   57   57   57	0038	97	8		58	36	0	8.60	0 0	9 9	1760	4 + 1 1 1 1 1 1 1 1 1 1	000000	77	******
Second Color	50C46A	30	14	- 60	19	36	0	240	00	T S	1750		***************************************	2 00	parent.
State   Stat	0C46A	30	14		84	36	0	(2) 528	0	(2) 25	1750	**********	4000000	2 2 2	********
Second Color   Seco	50C49	50	16	0	82	36	0	(2) 450	0	(2) 30	1740	**********	# c c c c c c c c c c c c c c c c c c c		
State   Stat	9526	09	161	0	82	36	0	(2) 648	0	(2) 30	1740		691111		Genner
State   Stat	10C57A	90	16		84	36	0	(2) 580	0	(2) 40	1750		411100	3.5	*****
Frown Products Corp., 97-12 Metropolitean Ave., Forest Hills, N. Y. — "Brown Water Chiller"   1756   1750	C57A	80	16.		75	36	0	(2) 850	00	(2) 40	1740	00000000	67 6 6 8 8	3:	
Freducts Corp., 97-12 Metropoliten Ave., Forest Hills, N. Y. — "Brown Water Chiller"   1755   1725   1   3   330/220   1   3   3   3   3   3   3   3   3   3	00C58A	100	KI		84	36	0	(2) 740	0	(2) 50	1750	00000000	Opposition and Company	22	
2W         2         18         22         24         H         1725         T         2         1725         T         230           3W         3         18         22         24         H         1725         T         3         1725         1         230           3W         3         24%         40         14         H         1725         T         3         1725         1         230           15W         16         28%         40         114         H         1725         T         (3)         5         1725         3         220           20W         20         10         14         H         1725         T         (3)         5         1725         3         220           20W         20         114         H         1725         T         (3)         5         1725         3         220           21         2         24         54%         32         H         1725         T         (3)         5         1725         1         230         220           21         2         2         2         4         1725         T         (3)			3	fronolites A	ve. Forest	Hills N.	T "Brown	Water Chiller"							
3W         3         18         27         24         H         1725         T         3         1725         T         3         1725         T         3         330/220           19W         16         24%         24         40         144         H         1725         T         (3)         5         1725         1         220           25W         28%         40         114         H         1725         T         (3)         5         1725         3         220           22W         20         24         54%         H         1725         T         (3)         5         1725         3         220           22W         20         144         H         1725         T         (3)         5         1725         3         220           22W         24         54%         32         H         1725         T         (4)         1725         T         (5)         5         1725         3         220           21         24         54%         32         H         1725         T         (5)         5         1725         3         220           21					22	24	I	1725	-	9	1994	6	9.80	0.0	101
Second Color	VC.3W		1		27	24	I	1725			1725	- 7	336/236	2 5	900
10	WC-SW	*9	2	41/2	28	28	I	1725	-	97	1725	17	230/230	33	107
5   28   28   4   4   14   14   1725   7   5   5   1725   3   220	VC-10W	01	28	81/8	40	75	I	1725	-	(2) 5	1725		220	33	10401
200	VC-15W	15	28	81/2	40	97	I	1725	-	(3) 5	1725		220	2	1 47
25   28%   24   24%   24   24%   24   24%   24   24	VC-20W	20	28	81/2	40	114	I	1725	-	(4) 5	1725		220	22	210
2 2 4 54½ 32 H 1725 T 2 1725 T 230  3 1 2 4 54½ 31 Tireman Ave., Detroit, Mich. — "American Blower"  18.0 133½ 645 33½ 0 1320  23.6 133½ 645 33½ 0 1320  24.0 133½ 645 33½ 0 1320  25.0 1800 3 220/440  26.1 137½ 70½ 22 0 997 0 1800  25.0 1800 3 220/440  25.0 1800 3 220/440  26.1 137½ 70½ 22 0 997 0 1800  27.1 155½ 64 33½ 0 1800 3 220/440  27.1 1800 3 220/440  27.1 1800 3 220/440  27.1 1800 3 220/440  27.1 1800 3 220/440  27.1 1800 3 220/440  27.1 1800 3 220/440  27.1 1800 3 220/440  27.1 1800 3 220/440  27.1 1800 3 220/440	VC-25W	25	28	11/2	40	141	I	1725	-	(5) \$	1725	•	220	22	242
1	VC-21	2	2.	-	54 1/2	32	I	1725	1	2	1725	-	230	22	300
Start   Star	WC-31	0	27		541/2	32	I	1725	-	6	1725	7	230/220	22	410
23.6 1374, 627, 324, 0 1370, 2 20, 440, 2 20	Imerican Bl		of American-	-	-	Ave.	-	-	lower"	1					
1374	COS	23.6	122		62%	32%	00	1320		25	1800	ne	220/440	22	2740
40.5 137% 70% 39% 0 711 • 40 1800 3 220/440 55.1 141% 24 4 53% 0 870 • 60 1800 3 220/440 74.2 141% 844 53% 0 525 • 75 1800 3 220/440 0 100.5 191% 84% 53% 0 713 • 100 3 220/440 0 148. 186% 98 53% 0 710 • 100 3 220/440	C30	30.4	134		643/6	321/4	0	666		30	1800		220/440	32	3460
5.1 126/4 7077 427 0 820 0 50 1800 3 220/440 2 10.1 126/4 12	250	40.5	137		70%	39%	00	711		07	1800	6	220/440	22	4920
74.2 141% 84 53% 0 525 ° 75 1800 3 220/440 0 100.5 191% 84% 53% 0 715 ° 100 1800 3 220/440 5 121.5 158% 88 55% 0 710 ° 120 1200 3 220/440 0 148 186% 98% 0 710 ° 120 1200 3 220/440	090	55.1	126	.,	70%	42.72	00	920		8 9	1800	ne	220/440	22	5460
100.5 191% 84% 53% 0 715 100 1800 3 220/440 220/440 121.5 180% 99% 53% 0 848 15 120 1200 3 220/440 148 180% 99% 53% 0 710 1200 1200 3 220/440	078	74.2			34	533%	0	525		75	1800	9 00	220/440	22.	8600
148 186% 98% 53% 0 710 • 120 1200 3 220/440	0100	120.5			84%	53%	00	715		001	1800	n	220/440	22	6066
004/07	150	148	186		281/2	55%	00	210		123	1800	,	220/440	22	10,900

## ROOM AIR CONDITIONERS

	Cooling						13	octrical	_	Air Copoci	ty.			Fan Motor	-	Coli	-	-	Air	Applica	tion of U	370	Net
Model	Capacity	Heating		Cabinet Size (In.)	e (In.)	Flush	Char	Tacheristics	-	CFM		Compi	0880r	Evap.	٥	ond. Ev	op. R	efrig.	Filter	Wind	MO.	in the	W
.00	BION	1006		2	9	Mount	Volte	Amps	Circ.	Fresh	Exhaust	H	Make I	EPM	HP - M	DWS Re	8.46	No.   S	Size (In.)	Convent.	Case.	wail	(19.)
General	Electric Co., Room		Air Conditioni	ioning	Dept. A	Appliance	Pork.	Louisville	Kv.	"Gonor	al Elacti	ie"											
81118	4000		3.5			annual de				2000	-	-						-		,			
K440K	2000		63	2	2	****	211	6.7	******	001111	******	-	17	1250/1250		P	P	22	13x14%	>	*****	****	374
R462R	0006	* * * * * * * * * * * * * * * * * * * *	26	15%	16%	>	113	12	******	******	*******	_	0	1630		200	2	22	11×10	>	1	1	115
R472R	10,000	***************************************	26	15%	16%	>	230	7.0		*******	********	_	0	1650	7	3**	0	22	11,10	>	1		116
D44730	10 200	P. S. D.	24	2017	101/2	1	230	0 4				-		1496						*	,		
2000				81.00	22.00	^	204	0 0		* 0 0 0 0 0	******	-	- 1	6791		7	7	77	17 1/8 KV 1/8	>	>	>	141
ROBIE	14,500	94994444499	25	20%	19 1/2	>	230	10.0	*******		*******	11%	-	1600		18.2	7	22	1716x934	>	>	1	184
*Reverse cycle o	rcle above 42°	above 42° F outdoor ambient - 3000 watt resistance heat below	ient - 300t	0 watt re.	sistance he	nat below 42	?º F outdo	nor ambient.	**Circula	culor.													
																							-
Ed Fried	rich, Inc., 1	117 E. Com	merce S	f San	Antonio, Tex	. Texas .	- "Floo	ating Air															
8W7515	8W751S 9000 27% 171%	***************************************	27%	1714/4	333%	>	115	11.7	350	0.88		3/4	ĝ=	1075	2	99	64)	12	914×2014	^			220
8W10025	11,700	**********	27%	17146	333%	>	230	7.5	380	0.95	*****	_	7.0	1075	1/2	•		22	9 16 x 20 1/2	>			220
8W15025	17,200		28	20%		>	230	4.4	909	0.150	*******	11%	-	167.5	27	*		99	1374.3314	.>			274
8W20328	22.100		28	2016		1	230	12.7	580	0.145				1076	175	•			1974 - 9914	1	****	****	
				82.04		4	-		-	200				1000			•	77	4 /BKec 72	>	2830	*****	787

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1973   515	Capacity Heating Cabinet Size (In.)	Heating W		abinet Size (In	1 5	0 (1	Flush	Chara	Electrical Characteristics Volts Amps	Circ.	Ur Capacity CFM Fresh	Exhaust	Compresser HP Make	Make	Fan Motor Evop. RPM H	-	Cond. Ev	Evop. R	Refrig. Fill	Air Filter Size (In.) Co	Application of Unit Window in the Convent. Case. wall	w In	e II o
53   73   1   1   1300   14   2   2   2   2   2   1611   45   4   4   5   5   5   5   5   5	& Palmer, Inc., Belding, Mich "Mercury"	& Palmer, Inc., Belding, Mich "Mercury"	Inc., Belding, Mich "Mercury"	Mich "Mercury"	- "Mercury"	ry"	1	1										1	1				
85   75   14   T   1550   16   2   2   2   2   1611   161	30% 16% 16% V 115 10.8	30% 16% 16% V 115 10.8	4 16½ 16½ V 115 10.8	16% V 115 10.8	V 115 10.8	10.8	10.8		9 9	22	55	75			1530	22	~ ~	2 4		1%x1/2	>>	1 1	>>
18	16% V 230 9.3 16% V 115 10.8	16% 7 230 9.3 16% V 115 10.8	16% 7 230 9.3 16% V 115 10.8	16% V 230 9.3 16% V 115 10.8	V 230 9.3	10.8	10.8		8 8	23	55	75	¥_	je je	1530	22	en en	~ ~		1%x1/2	>>	11	>>
150   150   1   1   1500   %	31 16% 16% V 230 6.9	16% 16% V 230 6.9 16% V 230 9.3	16% 16% V 230 6.9 16% V 230 9.3	16% V 230 6.9 16% V 230 9.3	V 230 6.9	9.6	9.6		37:	10.10	25.55	75	- %	gan gan	1530	22	~ ~	e4 e4		1%x1/2	>>	11	>>
85   190   1   1   1950   16     84164   V       100   190   19   1   1100   16     841944   V       100   190   19   1   1100   19   0     841944   V       100   190   19   1   1100   19   0     841944   V       100   190   19   1   1100   10   0     9   2   22   144414444   V       150   150   19   1   1100   10   0     9   2   22   1444144444   V       150   150   19   1   1100   10   0     9   2   22   144414444   V       150   150   19   1   1100   10   0     9   2   22   144414444   V       150   150   10   1   1100   10   0     9   2   22   144414444   V       150   150   10   1   1100   10     9   2   22   144414444   V       150   150   10   1   1100   10     9   2   22   144414444   V       150   150   10   10   10   10     9   2   22   144414444   V       150   10   10   10   10     9   2   22   144414444   V       150   10   10   10   10     9   2   22   144414444   V       150   10   10   10   10     9   2   22   144414444   V       150   10   10   10   10     9   2   22   144414444   V       150   10   10   10   10     9   2   22   144414444   V       150   10   10   10   10     9   2   22   144414444   V       150   10   10   10   10     9   2   22   144414444   V       150   10   10   10   10     9   2   22   144414444   V       150   10   10   10   10     9   2   22   144414444   V       150   10   10   10   10   10     9   2   22   144414444   V         150   10   10   10   10   10     9   2   22   144414444   V         150   10   10   10   10   10     9	Corp., 57 - 18 Flushing Ave., Maspeth, N. Y "Welbile"	Flushing Ave., Maspeth, N. Y "Welbilt"	Ave., Maspeth, N. Y "Welbilt"	N. Y. — "Welbilt"	Y "Welbilt"	elbir"	88																
100   150   17   17   1700   18   18   18   18   18   18   18	22% 13% 15% 115 7.5	13% 15% 115 7.5	13% 15% 115 7.5	15% 115 7.5	7.5	115 7.5	7.5		64 6	88	85	150		<b> </b>	1550	% %	1	:	O	7x16	>:	****	:
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Continue	well. **Aiso available for 208 volts.	230 volts. ‡Transom or in the wall. **Also available for 208 volts.	or in the wall. **Also available for 208 volts.	18% 16% 12. 12 230 12 in the wall. **Also available for 208 volts.	**Aiso available for 208 volts.	available for 208 volts.	208 volts.	volts.	320	_	001	130	N	-	8	2	,	:	× 60	7/101	:		*
Second   Telegram	Kelvinator Div American Motors Corp., 14250 Plymouth Rd., Detroit, Mich. — "Kelvi	Motors Corp., 14250 Plymouth Rd., Detroit, Mich	14250 Plymouth Rd., Detroit, Mich	14250 Plymouth Rd., Detroit, Mich	Rd., Defroit, Mich	Rd., Defroit, Mich	Mich	1	Kelvi	0	101,1												
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	data not available.	ble.								- 1													
75 1 0 1 1500 1/15 2 2 12 10/15 1/15 1/15 1/15 1/15 1/15 1/15 1/1	Electric Mfa. Co., 8100 Florissant Ave., St. Louis, Mo "Emerson-Electric	Co., 8100 Florissant Ave., St. Louis, Mo "Emerson-Electric	Ave., St. Louis, Mo "Emerson-Electric	Ave., St. Louis, Mo "Emerson-Electric	St. Louis, Mo "Emerson-Electric	Mo "Emerson-Electric	Emerson-Electric			z	orthwin	-											
75 1 0 T 1050/900 1/10 2 2 2 163/a10/6x½	16% 12 14% V 115 6.8	161% 12 14% V 115 6.8	14% V 115 6.8	14% V 115 6.8	14% V 115 6.8	V 115 6.8	8.9	00	135		********	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-	1500	1/12	64	2		1/Lx1	>	>	
75, 11/2 T 1500/1350 1/10 2 3 22 1559	270/ 270/ 270/ 270/ 270/ 270/ 270/ 270/	15% 18% V 115 7.5	15% 18% V 115 7.5	18% 🗸 115 7.5	V 115 7.5	115 7.5	7.5	49	220		20	7.5	0 400	1	050/900	1/13	2	2		0%×1/4	>		>
40 65 1% T 1300/1350 //# 2 3 22 15%n10/kn% V  70/ 70/ 130/ 1300 1/4 3 2 22 11%a8/kn% V  1054/ 130/ 2 T 1050/1550 1/4 3 4 22 17kn11 V									300	1	/09	75/	-										
00/ 105/ 130/ 95 110 2 T 1050/950 1/ <sub>10</sub> 3 4 22	AC8-15-307 11,000 22% 14% 24% V 230 12 280 AC8-20-300 15,500 15,500 12,500 12,500 15,500 15,500 12,500 12,500 15,500 15,500 12,500 12,500 15,500 15,500 15,500 12,500 12,500 15,500 15,500 12,500 12,500 15,500 15,500 12,5	1713/4 2313/4 V 230 12	1713/4 2313/4 V 230 12	24% \ 230 12	V 230 12	230 12	12		450		3	2	2 - 72		1500	% 's	N W		Ī	01/2×1/4	>>	****	>>
105/ 130/ 2 T 1050/950 1/4 3 4 22	300 300 15% 25% 21% 115 12 27% 27% 27%	25% 21% 115 12	25% 21% 115 12	21% 115 12	115 12	115 12	12		27.5	-	28	*******	_	T 150	00/1350	1/10	62	2		81/2×1/4	******	>	
93 110 2 1 1030/930 % 3 4 22									4	0	105/	130/			200/000					:	,		
	17,500 26% 171% 201% V 230 12	17 1/4 201/4 \ 230 12	17 1/4 201/4 \ 230 12	2019% V 230 12	230 (2	7	7		,	173	2	2	7		030/430	2	n			KII.	>		>

11	KOOW		AIR CONDITIONERS	A. 100	Common																			
8	Model	Capacity	Heating	3	Cabinet Size (In.)	(ln.)	Flush	Char	Electrical Characteristics	- 1	Air Copacity CFM	day .	ತಿಕ್ಷ	mpressor Made	Fon Meter Even.	-	Cond.	Evep. Ref	Refrig.	Alf Filter Gre (le.)	Application of Window		n of Unit	15
	Olympic	Radio &	Television, I		Unitronics	17.7	34-01 38*	th Ave.	Long Isk	and City.	1 -	wio" -	"pigu			4		1	1	1				
	OW775D		*************	16%	26%	30%	-	115	7.5	******	******	-	×.	1	-	1			21	***************************************	>7	****	1	165
	OW6100D	011111111111111111111111111111111111111	************	16%	26%	30%	* ***	230	7.0		Account to	Name of Street			***********	Second .	1 1		7.7		>>	1000	11	2 2
	OW7200D		A.c. mandre (c.) () ( ) ( )	16%	26%	33%		230	12	*******	*******	******	2		**********	****	1		21.5	***************************************	>	****	****	230
	O1783C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		20%	26%	17%	>>	115	12.3	******	******	Name of Street,	-	: :	***************************************		1 1		200		>>	****	-	3 2
	OW81005	0 0 0 0 0 0 0 0	0.0000000000000000000000000000000000000	15%	37	1814	>>	230	7.0	*****	******	-		ı	********	1	1	ei c	22	***************************************	>>	1	111	9 9
	OW8200D	\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	177%	24	24	>>	230	13	*******	******	*******	. 7			1 1	1 1		10	THE PERSON NAMED IN	>>	1 1	*****	230
	Mothes	Co. Div. o	of Gien Ald	len Corp	1501 E.	Broadw	vay. Fort	Worth	Texes -	Matt														
		0006	00000	27.7/4	171/2	21	>	115	11.9	350			-	v	1050	2	64			1/4×19%	>	****	-	061
	*5901	10,200	***************************************	27.1/6	171/2	21	>	230	7.9	400	******		_	v	1050	4/1	P4 (			1/4×19%	>	1	****	8
	1650	17,000		277/6	17/2	25%	>>	230	1.0	780	610000	********	5.	M-9	1140	2 3	n 4			1/4×19/6	>>	****	****	240
	1220	11,500	e	277%	21 1/3	27%	>>	115	12.0	440		*******		0	1050	*/-				30×20	>>	1 1		280
	122C	11,500	*******	27%	211/5	28	>	115	12.0	077	*******	*****		U	1050	1/2	e .	**	22 13	13%x19%	>	2000	****	280
	132D	13,200	***************************************	277/16	2/12	27.72	>	230	B. 0	470	0.00000	*******	-	u	200	S.				20×20	>			280
	1420HP	14,000		277%	211/2	28	>>	230	8.2	510	******	0 0 0	- 0	u à	1140	1/2	P1 F	200	22 13	13%×19%	>>	:		280
	210	21,000		97.79	21.13		>	***	9.01	3	******	*******				2.2				- CARE	>		ı	3
	21046	21,000		271/4	21 1/2	29%	>	230	13.5	650	******	Acceptant	2	8-W	1140	%	2	3 2	22 13	13%x19%	>	****		300
	24C	23,500		277/10	21 1/2	29	>	230	13.7	580			21/2	8-W	1140	\$:	0	4 22		20.20	>	i		308
	24CHP Available	23,500 os Heat Pump	(reverse cycle)	27.//8	21 1/2	26,62	>	230	13.7	280	***		2//2	N-1	1140	8	,			76×19%	>	£ .	exect.	303
	Emercon	Radio and	Phonograph	oh Corn	46 Oliver	Se. N	owark. h	1.4.1	"Quiet	Kee!"														1
	7914	7800				15%	>	115		260/225	20	100	3/6	-	1050	1/10	2			x81/5x20	>		:	135
	797	6250		30	17	15%	>	115	9	260/225	20	100	3/6	B-W	1050	1/10	-			x81/2×20	>		: :	135
	991	8400	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30	12	15%	>>	230	9 9	330/285	80 80 50 60	120		T-8W	1550	22	~ ~	4 22		%x8%x20	>>		::	9 9
	E10G2	10,500	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	261/4	16	321/4	>	230	9	340/290	85	110	-	-	1050	1/13	8			97/6×213/4	>	****	****	190
	E15G2	13,500	# 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26%	9 9	32%	>>	230	9 9	450/390	120	140	5 %		1050	22	m 4			9%x21%	>>	***		220
M	E30G2	***************************************	process sales of	26 1/4	16	32%	>	230	9	550		210		B-W	1500	%	10			97/ex213/e	>	****	1	230
AR	500		***************************************	21%	121%	2 2		5 1 1 2	3 3	150	* * * * * * * * * * * * * * * * * * * *		53		1500	n/1				1/9x12	>>			3 9
CH,	\$Also ovoile	Also available for 230/208	volts.	t‡Also available	able for 208	volts.	*Cosement	Kit available		**Thru-the-Wall	Models	available.	*			2								
19	McGraw-Edison	Edison Co	Lonergan	Coolerate	rator Div.	. Albion	, Mich.	- "Me	nning-Bo	lowman"														1
58	MD10A17	* * * * * * * * * * * * * * * * * * * *	0 0 0 0 0 0 0	26%	15%	17	>	115	7.5	350	20	35		-	1000	1/12				************	>	****	*****	165
•	MD10A2	P	0	26%	15%	17	>>	230	9	100	2000	3.5			1000	2/2			11	***************************************	>>	-	11	2 2
(	MD15A2*	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26%	15%	17	>	230	0:	425	55	35	11/2		1000	1/13				***************************************	>	****	i	061
co	MUZGAZ		0 0	26%	15%	177%	>>	230	7.5	350	3 9	3.5	× -		050/900				1		>>	1 1	1 1	180
MM	M110A2#*			26%	153/4	177/0	>	230		400	30	35	_		020/000	1/10			2	***************************************	>	-	1	185
4EF	MII5A1		***************************************	26%	15%	177/0	>>	230	10	425	55	35	22		1050/900	2.5	n n	3 22	1	***************************************	>>		1 1	195
RCI	M120A2*			263%	17%	27 1/8	>	230	=	200	9	9	2		020/000	3/4					>	1	- Park	230
AL	MI25A2*			26%	17%	27%	>>	230	7.8	128	9	40	21/2		1550	22				***************************************	>>	1>		240
. RE	*Also availa	*Also available for 208 v	volts. #Avail	with	reverse cycle heating	heating.		2			0 : : : : : : : : : : : : : : : : : : :	# 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7.7			720				**				
FRI	Mueller C	Mueller Climatrol, Div.	Div. of Wor	of Worthington	Corp., 2005 W. Oklahor	005 W. C	l ë	a Ave.	1-5	ee, Wis.	- "Mu	veller Cli	Climatrol"										1	
GER	920-75	8700		321/2	30	151/2	* * * * * * * * * * * * * * * * * * * *	230	0.4	320	7.5	7.5	%	<b>j</b> =	1050	35**	-	3 22		93/4×273/4×1	1	1	>	355
ATI	920-100	11,400		321/2	30	151/2	***	230	89 -	380	901	100	_	j=	1050	35**	4	3 22		946x2744x1	*****	****	>	360
ON	920-101	11,400		37	23%	13%	5000	230	8.2	380	100	100	-	-	1050	35**	4	3 22		9×27×1/2	****	1	>	370
	*Stream or	hat water.	**Mili-hersepower	wer.																				

1	Ced
4012	CONDITIONERS
4	
	AIR
-	

Model	Cooling	Heating	-	Cabine		Flush	_	Electrical Characteristics	-	¥	Capacity	-	Compressor	Fan Motor Evop.		Cond. Ev	Evop. Re	Refrig.	Air	Applice	Application of Unit	in the	N. N.
No.	ВТОН	-	*	-	٥	٦	4	alts A	1	Circ. F	resh Exhaust	4	Make	RPM	=		1	-	Size (In.)	Convent.	Case.	wall	(je)
Internat	International Mfg.	J. Co., 600 E.	E. Grand		Ave., Oklahoma	City.	Okla.																
CHW-60	9009	• (		0 0 0 0	: :	****	11	2	1.5	200 50	03	Streets		********		4.	1		*************	****	1++4	<b>‡</b> :	30
OH W-90	22 000				: :	*		0 =	50.		0.0		:	********			1		***************************************	****	*****		75
CHW-180	18,000				* *						0		***		::	4						: :	59
CHW-240	24.000				*		=	-	100		0				*	4		- 4-				+	80
CHW-300	30,000		****	00000000	:	****	11	-	-		0.			***************************************	:	4		+	***************************************	*****	****	++	92
CHW-360	36,000			00000000	*		-	2	.6 12		0			*******		4 .		+-		****	****	#.	103
CEW-60	9009		23	121/4	24				50		9	0				-	:		1x10x15	****	****	** *	90
CEW-90	0006		23	28%	24	***			51.	000	0.0	*******	:		: :	4 4	:	- 4	1×10×18	41114	11114		000
CEW-120	12,000		22	31.74	24			0 4	4 4		20	0 0 0 0 0					:	- +	1410430	****	*****		304
CFW-240	24,000		23	5414	24		11		9 90	300 20	0		:		:	*	: :		(2)1×10×23				175
																			1×10×23				
CEW-300	30,000		23	97.29	24	****	1		91 9	000 250	0			***************************************	: :	4	:	de s	1×10×30	11.	31116	-	194
CEW-340	36,000		23	70%	24				9					********			:	-	(Z)1×10×30		) est	**	000
FHW-60	0009		0 0 0 0 0 0	•	::				61.0	200		*******		4442410	:		:		1×10×13	*****	****	> ;	9 6
FHW-90	0006		0 = > 0 = 0 = 0	*******	: :	0 0 0	110		2 4	200	0.0		:			• •	:	- +	1×10×27			>>	0 0
ENW-120	18,000		*********	***************************************	:		114	-				8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	:		::	-	: :	- +	1×10×30			**	0
FHW-240	24,000		0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		:	****	11	-	9		0		:	0 00	:	*	: :	-	(2)1×10×23			->	170
2																			1×10×23				
FHW-300	30,000		00111110	000000000000000000000000000000000000000	*	****	117	90	9 10	000 250	0		: :	00000000	: :	4	:	+	1×10×30	3444	****	>	179
FHW-360	36,000		000011111		:		-		6 12	200 30		*****					:	-	(2)1×10×30	2005	****	>	193
FEW-60	9009	• (	30%		113%	*****	77		15	00		******	::		: :	* *	:	-	1x10x15	****	****	***	9 6
FEW-90	0006		30%		% 11	****			2 2				:		:		:		I X I OX I B		4111	10 1	10 0
FEW-120	12,000		35%	23	113/4		466		4 6 4	009					:		:		1×10×23		****		138
FEW-180	18,000		4078		112/	****	314		9 60					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	***	4			(2)1 -10-23		*****		230
FEW-240	44,000		37.78		7											,			1×10×23				2
FEW-300	30,000	•	65%	25	113%	*****	115	1.	9 10	000 250		*******	:	********	:	4		+	1×10×30	****		**	252
FEW-360	36,000		73%		11%	****	13.5	-	6 12	9		**				-		-	(2)1×10×30	I	1111	**	263
*Chilled hos	*Chilled hot water forced air.		**No cabinets.		***Not enclosed in	unit.	†Chilled v	water.	In closet	t at ceiling.	3. #Hung	g from ceiling	ling. #‡Or	Or cleset.	##Free	standing	console.						
Airtomn	N N	Chrysler Corn.		1600 Webster St.	t. Davton.	on. Ohio	A" - 0	Airtemp"															
		-				1	11.5	7	5	15		%	-	1050	1/200	6			11x231/2x1/2	>	*****	-	190
1675-20	8000	0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				>	114	11.	9	9.5	********	3/6	-	1050	1/110	6			11x231/2x1/2	>	****	****	192
1600-19	0066			******		>	230	7	0	40 20	001 0	-	-	1050	1/10	4	-		11x231/2x1/2	>	****	****	205
1600-21	0006	***************************************	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	******	* 4 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	>	-	12.	0	330 2	06 0		<b>-</b> 1	1050	01/	4 0			11x231/2x1/2	>	*****	*****	193
1600-22	8200					>	115	12.	000	33	******			1050	1/15	4 0			11x23/2x3/2	>>	*****	2444	200
1600-24	0004					>>	234	10	200	35	***************************************		-  -	1550	1/13	2 6			11x231/x1/2	>>			200
1415.3	13 800				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	>>	208/230	230 10.	7	40	5 100	11/2	ja-	1050	.01/1	6	2		11x231/2x1/2	>			210
1620-3	16.000					>	206/230		0	114 80	0 125	2	-	1500	. 9/	67	2		11x231/2x1/2	>	*****	****	220
1750-2	2000				0 0 0 0 0 0 0	:	115	7.	5			3/2	-	1550	1/80	0	_		(2)8%×111/4×%	*****	>	*****	131
1775-3	9890	B = 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0		112		6	30 90	94	3/4		1550	08%	3			(Z)8%x11%x3%	9555	>	****	140
1775-7	3600				*******	:	11.	100	96	230	100	1/4		1550	740	****	- 6	22 (2)	(21836x111/x3/5)	-	>>		9 9
1850	4300				B 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	>	13.5		2 40	00	8	1/2	-	1050	20M	2	-		2%x23%x1/2	>		>	127
							115	11.9/							******								
1875	7500	***************************************				> 7	208/2	0 0	00	290	130	3/4		1550	ZUM.	2 6	40	22 12	2%x23%x1/2	>>	****	>>	137
1800.0402+	8800	•	36	2634	22%	>	208/230	230 8.8/7.	0	00	9 110	-	-	1550	, % , %		2		23/4×233/6×1/3	> 1		>>	230
							11.5		1				1										
1875-96024	7300	***	36	26%	221/2	1	208/2	-0	0	275 3	104	* 7		1050	% % % % % % % % % % % % % % % % % % %	n (	N =	12 12	2%x23%gx1/5	erios.		>>	200
15206			27 16		10	+	113	0	1 64	05 20		9 /	. 8	1050	1/80	:		12	23/4×233/6×1/2			>>	130
15304	9550	**	27 1/6	263/4	10	+	115	0	2		90		2	1050	1/80	:			12%x23%x1/2	3000		>	130
15409	13,200	##	27 1/6		10	++	112	. 1.	4	0.5	0	*******	1	1550	1/20	2			2%x23%ex1/2		1000	>	130
*Single mot	*Single motor fer both	evaporater and	condenser	Fits	"Fits entirely on inside	inside of		9 sold.	fr. o.f		Addus all br	emental co	ndenser cell	Stern Call	11 11m1s								
†Same as 1	850, 1875 a	†Same as 1830, 1875 and 1800 but with Model 9602 Hearing Adapter Kit adde	th Model	9602 Heating	Adapter t	Kit added.	#Hot	Water or s	steam.	##Her Wat	11A	vailable as	ассендату.	3 up. 6	- 1								1
Forston (	Co., Mfg.,	Co., Mfg., 1400 Conti St., Houston, Texas	1 St. H	ouston, T.		"Forsto																	
	***************************************	001110000000000	22	17	33	>	230	0.9		393	*******		<b> -</b>	1550	1/2.6	*	2	22	(2)5x15x1/ <sub>2</sub>	>	*****		200
£2008			27	181/2	43	>	230			00	-	14	-	1050	2	4	m		19 %x197/ex1/2		****	-	320

ROOM AIR CONDITIONERS (Continued)

W. Charles   W.	Cooling Hamilton Cohines Co	1	Cabi	and Class Illa		-	Electr	icol	4	Air Copacit	ly.	Ŀ		Fan Meter	H	10		1	Air	Applicat	ion of Un	1	Net
10   10   10   10   10   10   10   10	Type	- 1		H H	0	en pun	Volts	Amps	Circ.	Fresh	Exhoust	E Com	Make	RPM RPM	9		$\neg$	No.	Size (In.)	Convent.	Case.	wall	(P)
15   15   15   15   15   15   15   15	Inc., Ama	ě	lowe .	Amar																			
15	*******	44.6	25		163/4	>	115	7.5	200	*****		_	-	1100	1/13	2	2	22	10×12		Acces	****	120
1		4.5	23		163/4	>>	115	7.5	200	40	******			950/1100	1/13	~ ~	2 5	22	10x12		+0+		120
1		4.64	18		63%	>>	230	2.4	230	40				050/1100	1/12	4 6	2 60	33	10.12		1		200
15   28   10   10   10   10   10   10   10   1	*******	14	52		38	>	115	7.5	250	80	100	3/8	-	950/1100	1/13	2	2	22	113/4x125/			>	155
1	prosess.	44 1	52	15	528	>	115	7.5	300	85	105	-	-	950/1100	1/13	4	2	22	113/4×12%			>	167
1	3030000	4 6	2		28	>	115	0.0	300	85	105		- 1	950/1100	1/15	0	m (	22	113/4×12%		****	>	167
1	********	* 0	2 2		97.0	>>	230	0.0	300	00 00	105	- :	- 1	950/1100	01/10	2 1	m (	77	113/4×12%			>	170
1	*******	4 54				>>	230	0.4.0	350	8 8	200	22	- 1-	230/1330	2.2	* 0	40	33	113/42129		1000	>>	180
1		-				>	230	. 0	350	2 6	200	11/2		1250/1400	1/2	. 00	20	22	113/. 11254			>>	182
15   28   V   200   8.0   8.0   10.		6.4	15			>	230	11.5	400	06	110	2	-	1250/1400	1/4	4	2	22	113/x125/			>>	194
1	~	54	13	15 2		>	230	8.0	300	85	105	-	-	950/1100	1/10	2	~	22	113/4×125%			>	171
15   15   15   15   15   15   15   15		64	13	15 2		>	1115	12.0	325	06	110	11/2	_	1250/1350	100	7	2	22	113/4×125%		*****	>	181
15   15   15   15   15   15   15   15		661	5	15		>	230	9.5	350	8	110	3 1/2	)	1250/1350	1/8	en	en	22	113/4×125/6		*****	>	187
15   15   15   15   15   15   15   15		ew i	50	9		>	230	11.5	400	8	110	2	-	1250/1400	1/8	4	8	22	113/4×125/8		****	>	194
15   15   15   15   15   15   15   15		LA I	22	100		>	230	7.5	300	00	00	_	-	900/1100	1/13	4	4	22	181/4×93/8		>	>	170
18   1875   V   187   V	*********	4 6				>	113	7.5	275	80	00 0	3/8	<b>-</b> 1	850/1050	1/20	4	e c	22	181/4×9%		>	>	155
Fluid control of the control of th	00000	4 6				>	115	7.5	275	80	80		- 1	850/1050	1/20	4	m .	22	18 1/4 x 9 3/8		>	>	155
Flags   15   15   15   15   15   15   15   1		40				>>	220	7.5	300	001	001	- 2		900/1100	1/13	4 .	4 0	25	18 1/4 × 9 3/8	>	>	>	170
		40	2 5		221/20	>>	211	13	275	901	080	3//8	- 6	850/1050	1/13		~ 0	27	18 1/4 x 9 1/8	>7	> ;	>>	9/1
Flags   19%   19					11%	>>	230	9.8	415	130	115	11/2	-	300/1480	22	. 4	2 62	22	181/4×93/8	>>	> :	>>	208
Carp.   State   Camera Window Intelligitary   Carp.		. 2				1		11.5	415	130	115	5	-	300/1480	%	4		22	181/4×93/8	>	1	>	216
Part		pecia	II Installatio			E I		lation.															1
15th	Gibson Refrigerator Co., Div.	90		-																			
2294, 15% 18% 18% 18% 230 8.0 225 4.5 6.0 1 1 11000 10 10 2 2 2 2 1004146444	*******	2			876	>	115	7.5	275	3.5	909	-	_	1100/900	1/10	2	2	22	10%x163/4x1/		*****	>	129
227% 17% 18% 1 % 18% 18% 18% 18% 18% 18% 18% 18	-	N			87/10	>	230	8.0	275	etisave.	NAMES OF TAXABLE	-	-	1100	1/10	7	2	22	101/2×163/4×1/		****	>	129
2.24	*******	2 60			8%8	>>	230	0.0	275	5	99		- +	1100/600	01/1	~	20	22	101/2×163/4×1/		4669	>	129
17.5%   17.5		40			13156	>>	115	12.0	310	000	80	117		1100/900	81/1	m e	m r	22	101/2×163/4×1/		****	>>	163
20% 17% 27% V 135 12.0 450 90 12.0 2 7 1550/1375 % 4 4 72 10/k16%-V V V V V V V V V V V V V V V V V V V		N					230	12.0	450	80	120	11/2		550/1375	1/4	4	4	32	101/2×163/4×1/		*****	>>	197
26/3 20/3 17% V 115 7.5 250 56 60 11, T 1050/900 1/1 5 2 2 12x15x1/2 V V V V V V V V V V V V V V V V V V V	Constitution of the last of th	N					230	12.0	450	06	120	2		550/1375	1/4	4	4	22	101/2×163/4×1/			>	200
#Min available for 200 volts.  **Philadelphia, Pa. — "Philo?"  **Philadelphia, Pa. — "Phila?"  **Philadelphia, Pa. — "Philadelphia,		40					115	12.0	250	30	9 6	11%		1050/900	1/13	4 4	7 4	22	12x15x1/2		>>	>>	178
#Alto available for 230 volit.  **Philadelphia, Pa. — "Philao"**  **Philadelphia, Pa. — "Philadelphia, P					77/16	>>	230	12.0	320	9	80	11/2		1050/900	2%	1 10	4	22	12x15x1/2		>>	>>	185
s., Philiadelphia, Pa. — "Philico"         113         7.5         195         1         T         1600/1350         1/10         1 & 2         2         2         10%x15%         V         V           24%         12%         12%         115         12         200         1         T         1600/1350         1/10         1.6         2         2         10%x15%         V         V           27         13%         21%         V         115         12         200         1         T         1600/1350         1/10         1.6         2         2         10%x15%         V         V           27         16%         21%         V         115         12         200         1         T         1650/900         1/10         5         4         2         12x13         V         1           27         16%         21%         V         230         7         400         11/1         T         1130/975         1         5         4         22         12x13         V         1           27         16%         21%         V         230         12         4         22         12x13         V         1	cycle heating	. Bu		è	30 volts.																		
24% 12% 12% 12% 11% 12% 12		1																					
2474, 1276, 1276, 113 173 173 173 173 174 174 1800/1330 174 187 175 175 175 175 175 175 175 175 175 17	2	STREETS,			1 ;	0		,				,							****				
15		2					115	12.2	210				_	400/1350	1/10		. 6	22	10%x151%		>>		127
27         1644         2114         V         115         7.5         230         1         7         1050/900         V/n         5         4         22         12x13         V           27         1646         2114         V         115         12         200         1         7         1050/900         V/n         5         4         22         12x13         V           27         1646         2114         V         230         12         40         11         7         1130/975         V/n         5         4         22         12x13         V           27         1646         2114         V         230         12         460         11         7         1130/975         V/n         5         4         22         12x13         V           27         1646         21         11         7         1130/975         V/n         5         4         22         12x13         V           27         119         119         7         1130/975         V/n         5         4         22         12x13         V           284%         18         23         173         14         1300/975		N					115	12	330			-	-	815/700	1/10		2	22	12x13		. :		213
27         16%         21%         V         115         12         330         1         T         165/700         Vs         3         2         22         12x13         V           27         16%         21%         V         230         7.5         410         1         T         1130/973         Vs         5         4         22         12x13         V           27         16%         21%         V         230         10         410         1         T         1130/973         Vs         5         4         22         12x13         V           27         16%         21%         V         230         12         460         2         T         1130/973         Vs         5         4         22         12x13         V            27         16%         21%         7         130/975         Vs         5         4         22         12x13         V	20000	2					115	7.5	230			-		1050/900	1/10	20	4	22	12×13		****	***	220
27         16%         21%         V         115         12         280         V         115         12         280         V         115         12         280         V         115         12         281         V         A	ex.	~					115	12	330			_		815/700	1/10	3	2	22	12x13		2116	1000	216
Corp., 3200 W. Peterson Ave., Chicago, III. — "Mitchell"         1         T 130/975         ½         5         4         22         12x13         V           27         16%         21½         V         20         7         40         1½         T 130/975         ½         5         4         22         12x13         V           27         16%         21½         V         2         7         1130/975         ½         5         4         22         12x13         V           16%         21½         V         115         6.9         175         7         1130/975         ½         4         22         12x13         V           16%         15         7.5         7         1         1500/975         ½         2         2         2         2         2         2         2         2         2         2         2         2         2         2         10%         V         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         2         2         1	j	CA					11.5	12	280			-		1050/900	1/10	20	*	22	12x13		30000		220
Corp., 3200 W. Peterson Ave., Chicago, III. — "Mirchell"  Let's, 11% V 230 10 410 1% T 1130/975 1/4 5 4 22 12x13 V  Corp., 3200 W. Peterson Ave., Chicago, III. — "Mirchell"  Let's, 11% 11% 15 V 115 6.9 175 75 17 11300 1/11 2 2 12 18x23 V	*******	~					230	7.5	410			_	ja-	1130/975	1/4	10	4	22	12×13		*****	*****	222
Corp., 3200 W. Peterson Ave., Chicago, III. — "Mirchell"  Law, 115% 15 10 10 10 10 10 10 10 10 10 10 10 10 10		Di C					230	0 :	410		******	1/2	- 1	1130/975	74	10	4 .	22	12×13		****	****	226
Corp., 3200 W. Peterson Ave., Chicago, III. — "Mitchell"         I 1300 W. Peterson Ave., Chicago, III. — "Mitchell"         T 1300 V. 12         2 2 12         71/415½         V           16%, 13		14					230	12	460	-		N	-	1130/975	1/4	0	4	7.7	12x13				233
Corp., 3200 W. Pererson Ave., Chicago, III. — "Mitchell"         *** Mitchell"																							1
11%   15	Div. of Cory					:		1	Wirchell	66													
15   16½, \( \sqrt{1} \)   115   7.5   275   75   75   75   75   75   75	*****	1						6.9	175		******	********	1	1300	1/18	8	2	12	71/2×151/2	>	****	>	62
8   23   \cdots   230   9   380   100   140   1   7   1050/950   1/4   2   2   2   103/3525   \cdots   \cdos   \cdots   \cdots   \cdots   \cdos   \cdots   \cdots   \cdos   \cdots   \cdots   \cdots	******	2						7.5	275	75	******	_	1	500/1350	%	2	2	22	8×23	>	****	>	125
18 23 $\checkmark$ 230 12 400 100 140 2 T 1050/950 $\%$ 3 3 22 $109_{35825}$ $\checkmark$ $\checkmark$ 18 18 23 $\checkmark$ 230 12 450 125 160 2 T 1050/950 $\%$ 4 4 22 $109_{35825}$ $\checkmark$ $\checkmark$ 18 23 $\checkmark$ 230 12 450 140 1 T 1050/950 $\%$ 2 2 22 $109_{35825}$ $\checkmark$ $\checkmark$ $\checkmark$ 230 12 450 125 160 2 T 1050 $\%$ 3 4 2 2 $109_{35825}$ $\checkmark$ $\checkmark$ $\checkmark$ 24% 24% 115 12 310 100 3 $\%$ 7 T 1500/1350 $\%$ 3 2 22 $(2)7/_{3812}$ $\checkmark$ $\checkmark$ 25% 24% $\checkmark$ 115 12 335 100 $\checkmark$ 1 T 1500/1350 $\checkmark$ 3 2 22 $(2)7/_{3812}$ $\checkmark$		ñ						0-	380	100	140	_	-	1050/950	3/6	2	2	22	101%x25	>	****	>	185
18 23 \ \ 230 12 18 100 2 1 1000/950 \\ 4 4 2 2 100\9525 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	******	N						12	900	100	140	2	-	1050/950	%	es .	es .	22	1013/32×25	>	****	>	195
18 23 \ 230 12 450 125 160 2 7 1050 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	****	26						12	450	125	091	N =	- 1	1050/950	%	4 0	4 0	22	101%x25	>>	****	>>	200
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otor P. HP		7,7,7,8,7,8,9,8,7,8,9,8,9,8,9,8,9,8,9,8,	1, 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21,7,7,8,1
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Electrical Characteristics Volts Amps	7. 2. 8 8 8 2. 5. 7. 5. 7. 5. 7. 5. 7. 5. 7. 5. 7. 5. 7. 5. 5. 7. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.		7.5 5 7.7 7.5 8 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	Chicago, 7.4 11.9 7.9 11.0
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Cabinet Size (In.)	Co., Albion, 15% 15% 15% 15% 15% 15% 15% 15% 15% 15%	15% 15% 15% 15% 17% 17% 17% 17% 17% 20% 20% 20% 16%	10 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mfg. Corp.,
3		HUPP C. 233/k 233/k 233/k 233/k 233/k 233/k 233/k 261/2 261/	055 Fage 27 27 27 27 27 27 27 27 27 27 27 27 27	Northern 22% 22% 22% 22% 22% 22% 22% 26% 26%
ing Hoating	McGraw-E			Que de la company de la compan
Cooling Capacity STUH	Mfg. Div.,	Industrie   8000   8000   8000   6700   14,500   16,000   7000   8700   8200   12,000	420° 470° 470° 470° 470° 470° 470° 470° 47	TODO 8000 8100 0 10,800 16,000 20,000 e in 208 velts
Model No.	Prgan 17 22 22 22 24 17 17 17 0vallab	Perfection B108 B108 B118 B118 B17A B17A B17A B17A B17A B17A B17A B17A	Westinghouse Electric Corp., 5W-7507 420° 560° 560° 560° 560° 560° 560° 560° 56	Northern-Aire Div. of RA-75-1 7000 RA-75-2 8000 RA-100-1* 10,800 RA-100-1* 16,000 RA-300-1* 20,000 *Also evaliable in 208 volis.

3.) Fluth Characteristical Air Capacity Compressor From Marker Cand Treeth Enhants (Fresh Enhants) HP Make RPW. HP Rows Rows Rows No. Size (in.)	Whirlpool"	V 115 12.0 315 100 150 1 T 1100 1/10 3 3 22	V 230 8.0 315 100 150 1 T 1100 1/10 3 3 22	V 230 8.0 315 100 150 1 T 1100 1/10 3 3 22	V 230 9.8 350 120 175 11,2 T 1100 1/6 4 4 22	V 230 12.0 420 150 200 2 T 1450 1/4 4 4 22	18% V 115 7.5 320 100 140 1 T 1100 1/13 3 2 22 10/hata/s	V 230 8.0 320 100 140 1 T 1100 1/4 2 2 22	V 115 12.0 350 120 160 11/2 T 1100 1/13 4 3 22	V 230 12.0 420 140 180 2 T 1400 1/4 4 3 22	V 115 12.0 310 80 120 1 T 1100 1/6 2 2 22	V 23@ 8.0 310 80 120 1 T 1100 1/6 2 2 22	V 230 9.8 340 100 150 1½ T 1100 1/6 3 3 22		f. Louis, Mo. — "Kauffman"	44 4 11 4444 4 11 44 44 44 44 44 11 14 14
Coping Heating Cabinet Size (In.)	Whirlpool Corp., St. Joseph, Mich "RCA Whir	10,000	11,000 25%	11,000 R 257/s	14,500 25%	17,500 257/8	CP8100-2 8500 27 161/4	10,000	27		8800 257/8	9900 25%		volts.	Kauffman Air Conditioning Co., 4505 Olive St., St. L.	70

175 175 200 200 200 200 170 170 170 170

Net (Bb.)

Kauffman A	Kauffman Air Conditioning Co., 4505 Olive St., St.	oning Co.	. 4505 C	Dilve St.	St. Louis.	Mo.	- "Kauffman"	"non"														
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H.X	7200	e ac	26	. 4	22	>>	115		320	200	100	3/8		1050	1/30	4 (F)	404	22	THE PERSON NAMED IN COLUMN	>>	1	******
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н-1	19,300	æ	26	14	27	>	220		450	90	90	2	-	1200	1/4	4		12		>		
W-H	7400	82	40	3.1	20		115		325	20	30	3/4	100	700	1/10	4	2	22		>		
A-H	10,000	œ	40	31	20		220		375	09	35	1	<b>-</b>	1000	1/8	4		12		>		
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I-W50	4700	æ	26	14	1.8		115		220	25	20	1/2	_	1050	1/20	2	2 2	22				>
I-W75	7200	~	26	14	18	****	115		320	50	30	3/6	1	1050	1/18	~	24	12				>
I-W100	9500	æ	26	14	10	****	220	******	370	70	40	-	-	1050	1/13	3	2	-				>
York Corp.,		Subsidiary of Borg-Warner Corp.,	-Warner	Corp.,	Grantley !	Rd., You	fork, Pa	- "Yorkaire"	"aire"													
E75.11*	7500		261/4	153/4	301/4	>	230	6.5	300	100	7.5	3/4	0	1090	1/12	2	2		//ax161/2x1/2	>		
E751-2	6250	***************************************	261/4	153/4	301/4	>	115	7.5	270	100	75	3/8	0	1100	1/10	6	2		/ax161/2x1/2	>		
E75R-11	7400	æ	261/4	153/4	301/4	>	230	6.5	300	100	75	3/4	0	1090	1/13	2	2 2		/ax161/2x1/2	>		
E100Q-11*	9500	************	261/4	153/4	301/4	>	230	8.8	310	120	85	_	0	1090	1/12	0	3		/ex161/2x1/2	>	-	
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E1000R-11	9300	œ	261/4	153%	301/4	>	230	8.5	310	120	85	-	0	1090	1/0	3	3		/ax161/2x1/2	>		
F112-11	8000	***************************************	22	137/6	147/0	>	230**	*******	225	*******	85	-		1550/1300	1/10	3	3		10x21x1/2	>		>
F112-2	8000		22	13%	147/0	>	115	12	225	*******	25	-		1550/1300	1/10	9	3		10x21x1/2	>	*****	>
F107-2	7000	************	22	13%	147/8	>	11.5	7.5	225	******	25	-		1550/1300	1/10	3	3		10x21x1/2	>	*****	>
F\$100-11	9500	***************************************	241/2	147/3	173/8	>	230.	******	290	25	25	-		1050/950	1/0	4	2 2		10x21x1/2	>		>
FS150L-2	11,000	***********	24%	171/8	25%	>	115	12	310	75	3.5	11/2		1090/0601	9/1	9	3		1/2×193/4×1/2	>		>
FC200-11	14,500	***************************************	24%	171/6	25%	>	230 **	******	420	100	20	2		1500/1350	1/2	2	4		1/2×193/4×1/2	>	*****	>
F\$200-11	16,000	***************************************	24%	171/6	25 3/6	>	230**	*****	420	100	20	2		1500/1350	1/2	9	4		1/3×193/4×1/2	>	Asset	>
EG75AP-2	7500	4519191919191	31	241/2	123/4		115	*****	280/230	75	75	%		1025/950	3/6	0	5 2		1/4×213/4×1/2	>	>	**
EG75APH.2*	7500	***	31	241/2	123/4		115	******	280/230	75	75	3/8		1025/950	1/6	3	5 2		/4x213/4x1/2	>	>	*
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York Corp., Subsidiary of Borg-Warner Corp	Subsidia.	ry of B.	org-War	mer Col	P. Gra	antley R	d., You	rk, Pa	- "Yo	rkaire"												
E75-11*	7500	***************************************	261/4	15	_	301/4	>	230	6.5	300	100	7.5	3/6	0	1090	1/12	2	2	22	97/6x161/2x1/2	>	
E751-2	6250	************	261/4	15		301/4	>	115	7.5	270	001	75	3/8	0	1100	1/10	6	2	22	97/ax161/2x1/2	>	
E75R-11	7400	æ	261/4	15	_	301/4	>	230	6.5	300	100	75	3/6	0	1090	1/12	2	2	22	97/ex161/2x1/2	>	
E100Q-11*	9500	***********	261/4	15	_	301/4	>	230	8.5	310	120	85	-	0	1090	1/12	3	6	22	97/8×161/2×1/2	>	
E1001Q-2	9000	***************************************	261/4	15		301/4	>	115	12	295	120	88	-	0	1100	1/10	6	6	22	97/ax161/2x1/2	>	
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F112-11	8000	***************************************	22	13	_	147/0	>	230**	*****	225		85	-	0	1550/1300	1/10	3	3	22	10x21x1/2	>	
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F107-2	7000	************	22	13	_	147/8	>	115	7.5	225	******	25	-	0	1550/1300	1/10	es	m	22	10x21x1/2	>	
F\$100-11	9500		241/2	14		173/6	>	230.	411111	290	25	25	-	0	1050/950	1/0	4	2	22	10x21x1/2	>	
FS150L-2	11,000	************	24%	17		25%	>	115	12	310	75	3.5	11/2	0	1090/960	1/6	9	60	22	111/2×193/4×1/2	>	
FC200-11	14,500	***************************************	24%	17		25%	>	230.	******	420	100	20	2	0	1500/1350	1/2	2	4	22	111/2x193/4x1/2	>	
F\$200-11	16,000	***************************************	24%	17		25%	>	230**	******	420	100	20	2	0	1500/1350	1/3	9	4	22	111/2×193/4×1/2	>	
EG75AP-2	7500	***************************************	31	24		123/4		115	9++410	280/230	75	75	3/4	0	1025/950	3/6	3	9	22	63/4×213/4×1/2	>	
EG75APH.2*	7500	:	31	241/2		123/4		115		280/230	75	75	3/8	0	1025/950	1/4	6	10	22	63/4x213/4x1/2	>	
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*Also available	for 208 volts. **Transformer kit ave	15. **	Transformer	r kit avails	able for	208 volts.	1000	eating pac	kage ava	vilable for us	e with w	of heat sy.	ttem. #	Kit availa	able for through	h-the-wal	Il install.	ation.				

A. Sutton Corp., Inc., 1812 W. Seco	26%	R 263/8	R 265%	R 265/8	R 265%	263/6	R 265/8	ex	R 273/a	151/2	26%
cond St., V	165%	16%	16%	16%	163/8	16%	16%	16%	171/4	22	167/8
Vichita, Ka	16714	16/16	16/16	16/16	16/16	23/16	23/16	237/16	29%32	21%16	23/16
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Vornado	115	115	115	230	230	115	230	230	230	115	230
	7.5	12.0	12.0	7.2	6.2	12.0	9.6	11.3	12.2	7.5	7.5
	210	275	275	275	275	275	325	325	550	300	325
	********	******	******	********		916611		2631119	100	150	
	45	20	118811	20	*******	9	06	06	150	******	80
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	1525	1525	1410	1525	1410	1550	1550	1550	1435	1450	1550
	**	3/4	1/8	1/8	%	1/0	1/8	1/8	1/4	1/20	1/8
	3 2	3	3 2	3	3 2	3	3	3	3	3	3
	22	22	22	22	22	22	22	22	22	22	22
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Appli Wir Convent.	>>>>>>	>>>>>>>	>>>>	11111	>>>	11	
Air Filter Size (In.)	121/4x121/4x15 12x13x14 12x13x14 12x13x14 111/4x13y2x14 111/4x14 111/4x13y2x14 111/4x13y2x14 111/4x13y2x14 111/4x13y2x14 111/4x1	10/5x14	10x15x1/2 10x15x1/2 107/ex22x1/2 107/ex22x1/2	1/2×29×7 1/2×29×7 1/2×29×7 1/2×29×7 1/2×29×7	14x101/2 14x101/2 14x101/2	******	71/2×17% 71/2×17% 71/2×17%
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Evap. Rows	***********	***********	mmm4	~~~~	200	88	000
Cond. Rows		************	0404	00444	000	11	200
otor HP	7, 12 1, 16 1, 16	%%,%%,%%,%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	2222	22222	1/30 1/20 1/20	11	222
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Compressor HP Make			0000			11	
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-2-22, 2-2, 22, 22		3,8	1 1 1/4	1 1	11/2
Exhaust	935	170 185 175 170 170 180 180 180 185 185 185 185 185 185 185 185	150	120 120 135 135 140			0.250 0.300 0.350
Air Capacity CFM Fresh E	70 70 85	145 155 130 140 140 140 140 150 160 160 160 160 160 160 160 160 160 16	150 200 225	70 70 70 80 80 80 90 90	80 90 120	Conditioner"	111
Clrc.	220 275 225 310 310 400/440 530 430 430	350 375 300 340 340 350 340 340 350 350 350 365 365 365 365 365 365 365 365 365 365	260 260 400 430	280 280 300 350 360	275 300 350	¥	230 300 350
Electrical Characteristics Volts Amps	12 7.5 7.5 12 12 12 12 12 12 12 12 12 12 12 12 12	"Fedders"  220 8.7/8.4  220 8.7/10.5  220 10.7/10.5  230 10.6/10.5  230 10.7/10.5  230 8.7/8.6  240 20.7/10.5  250 10.7/10.3  270 10.7/10.3  270 10.7/10.3	"Frigidaire" 5.6 28 5.8 26 10.0 40	Bronx, N. 7.5 11.5 12.0 9.2 11.9	"King" 7.5 12.0 6.8	Brown .85	13.1 8.6 9.7
Chairs	115 115 115 230 230 230 230 230 230 230 230 230 230	208/230 208/230 115 115 208/230 208/230 208/230 208/230 208/230 208/230 208/230	Ohio – 230 230 230 230	115 115 115 208 208	1115	X. ₹.	sing, Mich. 115 230 230 8 homes.
Flush	>>>>>>>	; z>>>>>>>>> -i	Dayton,	230 Man		Hills,	1000
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Cabinet Size (In.)	7. 4. 13% 13% 13% 13% 13% 13% 13% 13% 13% 13%	Ave Mgs	300 Taylor St., 20% 15%, 20% 15%, 16% 37%2 16% 37%2	f I. Wenig & S 20 20 20 20 20 20 20 avoilable for 230	Woodhaven Blvd., 25 20% 25 20% 25 20%	Metropolitan Av 15% 31% 31%	25 14/5 31 22 14/5 31 22 25 14/5 31 22 25 14/5 31 22 25 24/5 21 24/5 21 22 25 24/5 21/
	Auburn, 23 23 24/5 26/5 26/5 26/6 26/6 26/6 26/6 26/6 37 37 30	Flushing 27 27 27 27 27 27 27 27 27 27 27 27 27	Corp., 25 26 26 26 26 26	33 33 33 33 33 33 83 84 86 87	Woodh 25 25 25	Metro 15½ 31½	25 25 25 25 ceiling d
city Heating		Corp., 5201 Fi	Frigidaire Div., General Motors AS-100-82* 8600 AI-100-82* 10,000 AI-150-82* 15,600 Aix available in 208 volt.	Corp., C	Corp., 76-02	Corp., 97-12	Appliance Div., Motor Wheel Corp., 111 W., 100-8 107-50 25 14/100-8 10.550 25 14/150-8 13.100 25 14/150-8 13.100 25 14/160-8 13.100 25 14/160-8 13.100 25 14/160-8 13.100 25 14/160-8 13.100 25 14/160-8
Capacity BTUH	Corp.,	Doigan Co	Biv., Gen 8600 10,000 13,600 16,500 16,500	I. W. Air Conditioning Corp., 75-115-127 8300 (10-1)5-12 10,000 (10-1)5-12 11,000 (10-208** 14,800 or 230 velts.		3800 7800 7800 **Water.	Div., Mot 8750 10,550 13,100 igned for roo
Model No.	Remington WSF-2* WSF-2* SDFA-2 SDFA-2 WPD15G-3 WPD16G-3 WAND16G-3 WAND16G-3 CD10G-3 12D129 12B129 CW10A-62* CW15A-43	Fedders-Quigan Cs 812F5 8115H 8115H 8165H 8160H 82005 8200H 82005 82005 8105 81105 8	Frigidaire Div., Genera As. 106-82* 8600 A-150-82* 10,000 A-150-82* 15,600 *Also available in 208 volts.	1. W. Air 75-115-127 75-115-12 100-208** 150-208**	King Refrigerator SLA57 6500 SL1115 9200 SL1000 11,000	A. Brown BAC-11 BAC-22 *Hot water.	Appliance 100A-8 100-8 150-8 *Specially des

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#### REPRINT PRICES

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### COMMERCIAL REFRIGERATION & AIR CONDITIONING

800 Caxton Bldg.

Airtemp Div., Chrysler Corp. .....114

812 Huron Road

Cleveland 15, Ohio

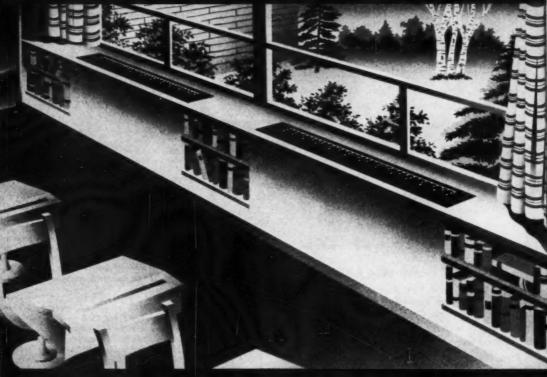


Dear Bill:

If you are building a new school or planning to renovate an old one, you unquestionably need the new Anemostat School Catalog.\* Suggest you write for your copy to Anemostat Corporation of America, 10 East 39th Street, New York 16, N. Y.

Tom

ANEMOSTAT ALL-AIR HIGH VELOCITY SYSTEMS FOR SCHOOLS



A NEW DEVELOPMENT FOR HEATING AND VENTILATING

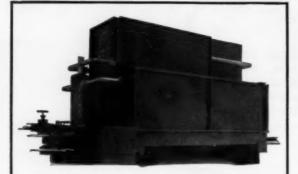


\*Contains performance and dimension data, control diagrams, everything you need to specify.

Circle No. 61 on Reader Service Card

& Anemostat Corporation of America

AC1360



## NIAGARA SECTIONAL Aeropass CONDENSER

gives you lower cost refrigeration, saves you LABOR, Power, Water

- Because Niagara "Duopass" pre-cooling removes super-heat and gas condenses at lower temperature.
- Because the system is automatically purged of oil.
- Because the new design improves the heat transfer to the out-door air by evaporation.
- Because these features keep the condenser working for long life with "new plant" efficiency...always full capacity.
- Because you save 95% of cooling water cost.

You save labor in upkeep. With full access to all parts and interior piping you see everything in easy inspections. You head off dirt accumulation and corrosion. Casing panels are removable without moving the coils. The coils can be cleaned from both sides.

First cost is low; freight is low because of the lowest space/weight ratio; you save much labor in erection. Capacity range is 60 to 240 tons. No other condensing method gives you so much saving in money and trouble.

Write for Niagara Bulletin 131.

#### NIAGARA BLOWER COMPANY

Dept. CR-3, 405 Lexington Avenue NEW YORK 17, N. Y.

District Engineers in Principal Cities





Over 40 Years' Service in Industrial Air Engineering

Circle No. 62 on Reader Service Card

(For News of New Products turn to page 134)

MOTOR CONTROLS can be selected easily, quickly with the aid of "quick selector" tables included in Catalog 5800 by Furnas Electric Co. Tables give horsepower, motor speed, heater size and heater ampere ratings, enclosure choices and prices. Also included is design data and prices for entire line of controls.

Circle No. 188 on Reader Service Card

HEAT REMOVAL by the air method, and heat and moisture control are the main subjects in bulletin 135 published by Niagara Blower Co. Gives practical applications in the process and chemical industries for equipment such as after-coolers, air conditioners, liquid coolers, heat exchangers, condensers, and refrigeration equipment.

Circle No. 189 on Reader Service Card

NEW ALL-MINERAL protective coating for low-temperature insulating materials used in refrigerated and cold storage rooms is analyzed in "Koldrok" bulletin produced by Selby, Battersby & Co., Philadelphia, Pa. Two-color publication covers the advantages of using the coating in meat packing plants, dairies, breweries, cold storage plants, restaurants, food processing plants, and refrigerated rooms and warehouses.

Circle No. 190 on Reader Service Card

INSTALLATION, MAINTENANCE and service of self-power gas system, thermostates, pilot generators, fan and limit controls, transformer relays and thermopilot valves are described in service manual B-60, available from General Controls Co. Also includes a quide for use of millivolt meters.

Circle No. 191 on Reader Service Card

LATEST DESIGN FEATURES of Allis-Chalmers front access, high-voltage starters (Type H) for 2300 to 5000-volt motors are shown in new bulletin from the Milwaukee firm, The bulletin, "Type H Motor Control," 1485507, explains how the starter's roll-out-type, air-break contactor (Type 256A) makes inspection and routine maintenance easy. Diagram illustrates eight ways in which the starter provides complete protection for men, motors, and machines.

Circle No. 192 on Reader Service Card

SALES AND ENGINEERING DATA on remote type air conditioning units is included in Catalog HC-C5 by Fedders-Quigan Corp. Describes operation and design features of "Fedair" line. Cooling and heating capacity ratings and performance graphs are included to aid in proper selection. Illustrations include exploded views and individual parts.

Circle No. 193 on Reader Service Card

DEFROSTING LOW TEMPERATURE SYSTEMS is the subject of two bulletins (TV380 and TV320) published by Kramer Trenton Co. Discusses operation of company defrosting equipment, including engineering specifications and dimensions. Also lists sales advantages.

Circle No. 194 on Reader Service Card

(More Useful Literature on page 128)



Complete new Armaflex line includes %", \u03b1", and \u03b1" nominal wall thicknesses. Sizes range up to 3" IPS. For larger piping, Armaflex sheets are used.

## Now—3 thicknesses of Armaflex pipe covering to stop condensation down to zero



Now Armstrong Armaflex® comes in three wall thicknesses — %",  $\frac{1}{2}$ ", and the new  $\frac{3}{4}$ ". With this greater thickness, you can apply the economical amount\* of insulation to stop condensation on lines operating all the way down to zero. Armaflex is a highly efficient, flexible, foamed plastic material with a k factor of .28 at 75° F. mean temperature. Its closed cell structure is impervious to air or vapor penetration.

A big advantage of this flexible insulation is the speed with which it can be applied. Labor costs drop as much as 50%, compared to costs of applying more conventional insulations to pipes and fittings. Armaflex can be slipped over piping before connections are made, or slit and snapped on. Joints are sealed with 520 Adhesive. Fittings are easily and quickly insulated.

\* Recommended Armaflex thicknesses for various service conditions are contained in free descriptive booklet. For your copy, write today to Armstrong Cork Company, 2203 Rumford Avenue, Lancaster, Pennsylvania.

#### Armstrong INSULATIONS

Circle No. 63 on Reader Service Card

#### MORE OF EVERYTHING PLUS NEW LOW PRICE



#### LA CROSSE THRIF'AIRE BOTTLE COOLER

First in economy . . . finest in design and now the new low low price of the La Crosse Thrif'aire makes your greatest value in bottle coolers! The exclusive "plug-in-panel" refrigeration unit is quickly and easily removed . . . adaptable to many uses. Beautiful grey baked ename! . . . 42" and 62" lengths . . . fingertip, stainless steel, slide-away doors.

Your welfare is ours ... We don't sell direct

#### WRITE TODAY

ROSSE COMPANY











EXPORT OFFICE -- 125 BROAD STREET . NEW YORK CABLE -- EXIMPORT

IT COSTS Takes less PLS to give a



- perfect seal.
- 2. One compound for many services: water . . . oil . . . gas . . . steam . . . refrigerants . . . chemicals . petroleum products-low and high pressures.
- 3. Never washes out one application lasts forever.
- 4. Never hardens: joints may be easily broken after years of service - no damage connections.

Prove it to yourself. Send for a free sample. Crame Packing Company, 6455 Oakton Street, Morton Grove, ill., (Chicago, Suburb).

CRANE PACKING COMPANY

Circle No. 65 on Reader Service Card

#### USEFUL LITERATURE . . .

Continued from page 126

WATER TREATMENT in low-pressure heating boilers is the subject of a bulletin by Water Service Laboratories, Inc., New York. Two-color publication covers the operating troubles of boilers caused by impurities in feed water. It outlines the procedure for minimzing damage to boilers. Hints are given on corrosion and scale prevention, tube failures, cast iron boilers, and treatment of boiler water.

Circle No. 195 on Reader Service Card

BENDING AND FLARING TOOLS, tube cutters, tube bending springs, and swedging tools are listed in new bulletin (202) published by Wilson Mfg. Co. Description includes features, applications, specifications and prices.

Circle No. 196 on Reader Service Card

SALES FEATURES of new soft drink dispenser are described in brochure released by Polar Chips Mfg. Co. All details of con-struction and capacity are included, plus dimensions and other specifications.

Circle No. 197 on Reader Service Card

SILENCERS, which prevent transmission of noise without imped-ing air passages, are described in a bulletin (QV-91-R1) from In-dustrial Acoustics Co., Inc. Lists principles of operation, applications and specifications. Also included is acoustic comparison between doors, windows, walls and new "Quiet-Vent".

Circle No. 198 on Reader Service Card

AUTOMATIC CONTROLS are illustrated fully in Catalog R-1500 by White-Rodgers Co. Complete line of products is shown with features, specifications and dimensions, and application.

Circle No. 199 on Reader Service Card

CONSTRUCTION, SPECIFICATIONS and operations of a new line of centrifugal fans are described in bulletin by Chicago Blower Corp. Lists data for nine fans designed for bakeries, garages, laundries, stores, schools, churches and hospitals.

Circle No. 200 on Reader Service Card

**DESIGN OF DUCTS** for high velocity heating and air conditioning systems is detailed in manual published by Anemostat Corp. Includes new performance tables, correct design procedure based on computations for office building. Schematic layouts are shown. Also information on duct construction and insulation.

Circle No. 201 on Reader Service Card

FORCED AIR FURNACES and all season air conditioners of new design are described in new booklet (LM-571-M11) pub-lished by Lennox Industries, Inc. Included are detailed construction features of major components, and description of assembling components into many combinations.

Circle No. 202 on Reader Service Card

INCREASED EFFICIENCY is shown by case histories of how mobile radio systems operate in industrial, business, and service organizations in brochure by Radio Corp. of America. Also documented is the speed and economy of these radios. Illustrated and described are the various types of mobile radio and base-stations systems and equipment for service groups. The brochure, entitled "How Service Organizations Increase Efficiency with RCA Two-Way Radio," is available on letterhead request to Advertising Manager, Communications Products Dept., Bldg. 15-1, Radio Corp. of America, Camden, N. J.

INFORMATION ABOUT SELECTING and ordering temperature control valves is provided in Bulletin 655 released by Jordan Industrial Sales Div., OPW Corp. Includes selection of proper material. Formulae and examples show how to assure proper valve sizing. Lists information needed by manufacturers to furnish proper valves.

Circle No. 203 on Reader Service Card

LIGHTING AND AIR CONDITIONING in the same ceiling fixture is described in new bulletin (AD6765) issued by Benjamin Electric Mfg. Co., and Pyle National Co. Provides installation procedure, suggested applications and sales features.

Circle No. 204 on Reader Service Card

BRASS VALVES, accessories and fittings for refrigeration and air conditioning are listed giving size and application data in catalog R-6 by Superior Valve & Fittings Co. Also includes recent technical data on ASME approved relief valves, hermetically fused sight glasses and high capacity heat exchangers.

Circle No. 205 on Reader Service Card

PRINCIPLES OF REFRIGERATION are used as an introduction to bulletin 80-E published by Frick Co. Includes description and features of this company's products, and shows actual installations. Also lists ueful refrigeration tables.

Circle No. 206 on Reader Service Card

VALVES, liquid indicators, driers, unions, strainers, and filters of all types are illustrated in Catalog 103. Recently issued by Henry Valve Co. Listings include specifications, dimensions and characteristics.

Circle No. 207 on Reader Service Card

(For News of New Products turn to page 134)



Inclined Tube Type

Accurately indicates air flow resistance in duct at air filter. Easy-read white enamel scale. Level and tube replaceable on the job. Easily installed.

#### Diafram Actuated, Dial Type

High powered, free floating diafram. Accurate pointer mechanism floats on knift-edge bearings. Easy to read—readily installed.

Widely used in public buildings, hotel, hospital and office buildings. Three

types offered:

Bell Actuated, Dial Type

Bell submersed in oil pan actuates the accurate mechanism which floats on knife-edge bearings. Bell oil easily replenished through inlet at top.

· Ask for Air Filter Gage Builetin 214.

#### ELLISON DRAFT GAGE CO., INC.

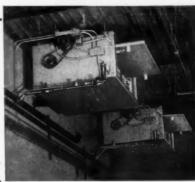
555 W. MONROE ST. Since 1896 CHICAGO 6, ILL.

The Ellison Line Also Includes:

Draft Gages, Bell and Diafram—Inclined Draft Gages—Portable Inclined Vertical Tube Gages—Vertical Tube Gages—Oil, Heavy Liquid and Mercary—Single and Multi-Tube-Saturator Gages—U Gages—Stationary and Portable—Air Filter Gages—Dial and Inclined Tube Types—Pitot Tubes—U Path Steam Calorimeters—Portable Gas Analyzers-Orsat Type

Circle No. 114 on Reader Service Card
& AIR CONDITIONING • MARCH. 1958

Partial view of six Krack coolers installed by York Louisville Co.



KRACK

## coolers end defrost problem . . . enlarge storage space

for Merchants Wholesale Grocery Co., Louisville

- # Electric defrost—Warm air from electric heaters is recycled within the unit.
- More storage space—Mounts on ceiling. Produce can be stacked higher—both air intake and discharge at the front.



Choose from 6 models for Freen, ammonia or brine

For complete details . . . send for BULLETIN ED-1055

REFRIGERATION APPLIANCES, INC.

905 W. Lake St. Chicago 7, III. MOnroe 6-1141

### NOW! SIT BACK AND RELAX while FRANKELL'S





No Experience Necessary
— Simply Set Automatic
Timer — No Watching
. . . No Worry . . . No
Special Jigs or Fixtures
Necessary. And Only
One Hermetic Repair Job
a Week Will Pay For
Your Hermetic Compressor Opener.



This is the ONLY proven precision engineered hermetic compressor opener on the market.

SEND FOR THE COMPLETE STORY ON HOW FRANKELL CAN MAKE YOU BIG MONEY!

#### FRANKELL MFG. CO., INC.

1074 HOME STREET, NEW YORK 59, N. Y. WRITE DEPT. C

Circle No. 72 on Reader Service Card

#### CARRIER NAMES OUTLET FOR UNIT HEATERS

Further expansion of its unit heater sales organization is announced by Carrier Corp. with the appointment of a new manufacturer's sales representative in the Louisville, Ky. area. The announcement follows recent enlargement of production facilities for heating equipment at the company's Syracuse plant.

The new sales territory will be handled by Arco Engineering Co., Louisville. Three partners head up

CORNELL-

DUBILIER

the firm: William Riester, Lee Hammond, and George Andriot.

The company will handle Carrier's complete line of unit heaters, plus heating and ventilating equipment.

#### REPORT ON SMALL-PIPE PERIMETER HEATING

A full report on the results of research investigation of "smallpipe" warm air perimeter heating systems has been published in Bulletin No. 445—"Performance of Small-Pipe Warm-Air Perimeter Heating System" by the University of Illinois.

The report covers the smallpipe perimeter heating investigations for 1951 through 1954, which was done in the Warm Air Research Residence No. 2 of the National Warm Air Heating and Air Conditioning Association at the university. The Warm Air group has sponsored a continuous research program at the university for the past 38 years.

In addition to discussing the performance of warm air perimeter heating systems with and without the addition of heat to the basement, this report also contains a comparison of perimeter and high side wall convection systems.

The bulletin may be obtained by writing to the University Engineering Experiment Station, University of Illinois, Urbana, Ill. Price is \$1.00 per copy.

## Motor Capacitors Motor Capacitors Perendable for Dependable Service Motor Service

Don't risk your reputation on motor capacitors of questionable quality. Remember — only the right capacitor will assure maximum torque.

For over 25 years C-D motor starting and running capacitors have been "preferred" by motor manufacturers and repairmen alike. And, there's a C-D type for every known motor application ... available for immediate delivery from your local C-D Distributor. You can select the type you need for any job from Catalog XTR-MOT. Write for your free copy to Cornell-Dubilier Elec. Corp., South Plainfield, N. J.



### CORNELL-DUBILIER CAPACITORS

Old Hands at Dependability

Circle No. 67 on Reader Service Card

#### KEEPS COOL ON HOT ROADS



COMFORT IN THE CAB of this tractor-trailer rig operated by a Michigan moving firm is provided by the Kysor air conditioning unit mounted atop the cab. This unit delivers fresh, cooled air to the cab interior and sleeping quarters at 340 cfm, maintaining a constant 70 F temperature even in the hottest weather. The air conditioner is powered by a Kohler gasoline engine. Starter button is conveniently located in the cab roof.

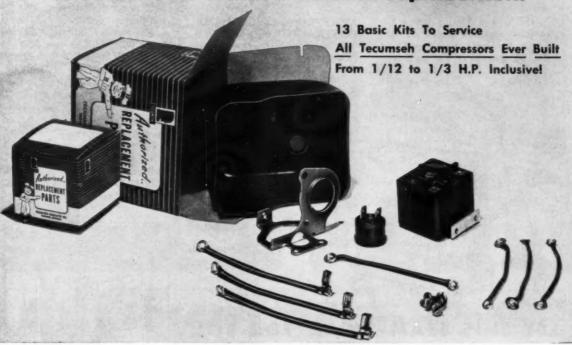
#### NAMED McQUAY OUTLET

McQuay, Inc., announces the appointment of the newly formed firm of Case-Orians Co., Detroit, Mich., as its representatives for heating and air conditioning products in the eastern Michigan territory.



### engineering SON

#### Takes the risk out of electrical replacement



That's right, only 13 basic electrical kits are necessary to stock factory approved electrical components; 5 kits for pancake compressors and 8 kits for single cylinder internal spring mount compressors. These 13 kits will allow replacement on 70% of the approximately 30,000,000 Tecumseh compressors now in the field.

All of these kits are neatly packaged in a distinctive yellow and blue carton and contain all the pieces necessary to replace the overload and relay on these models. In addition to the correct overload and relay, where necessary, terminal screws and two sets of 3 wires are included. One set has eyelets for screw-type terminals and the other has quick-disconnect clips for glass terminal compressors. You use the ones required and throw away the other set.

In some cases the replacement relay will not fit under an older cover and a jumper wire is needed. In the sizes where this problem may occur (high torque 1/4 and 1/5 H.P.) a new cover, mounting bracket, and an extra wire are included in the box. In this way, one kit will fit all existing models,

Instructions and wiring diagrams are included with every kit so the serviceman should have no trouble with the connections. To order, you must know only the H.P. and whether or not it is high or low torque. There is only one exception to this which is our Model S3N14. In addition to regular applications this model was used on room air conditioners and this application requires a special kit.

Here is a real improvement to take the guesswork and chance of error out of the replacement of electrical components. Save inventory problems and be right *every* time with a genuine Tecumseh approved replacement.



The Leader Serving Leaders in the Air Conditioning and Refrigeration Industries

#### TECUMSEH PRODUCTS COMPANY

MARION, OHIO

TECUMSEH, MICHIGAN

EXPORT DEPT: P. O. Box 2280, 24530 Michigan Ave., W. Dearborn, Michigan

#### **GROUP STUDIES WAY** FOR ASHAE-ASRE MERGER

The American Society of Heating and Air-Conditioning Engineers, and American Society of Refrigerating Engineers, unanimously have approved further study of a method for merging the two societies as prepared by the ASHAE-ASRE committee on cooperation.

ASHAE and ASRE Councils also have approved presenting the report to their memberships through regional and sectional

meetings during the spring of 1958.

Both societies, providing a subsequent committee report is approved by their Councils in June, will present the method of merger at the summer meetings, and will request approval to submit the proposition for membership vote at the winter meetings.

#### ARMSTRONG CORK FORMS CONTRACTOR SUBSIDIARY

A wholly owned subsidiary to be known as Armstrong Contract-

ing and Supply Corp., has been formed by Armstrong Cork Co. to handle all contracting operations now carried on by its Insulating Division.

Armstrong will continue its Insulation Div. under general sales manager A. E. Pearce. The division conducted its usual contracting operations until Jan. 1, 1958, when it was taken over by the new subsidiary.

The new subsidiary is headed by J. W. Liddell as president.

The new company, to be incorporated in the State of Delaware, will have its headquarters in Lancaster County. The subsidiary will draw its personnel from the Insulation Div. and general office of the parent company.

Officers of the subsidiary also will include E. D. Ainslie, Jr., Philadelphia and A. J. Stream. Seattle, vice presidents; and E. W. Hines, secretary-treasurer.



#### TEAM WORK

One FINDS refrigerant leaks . . . the other PREVENTS them!

Years of use has proved them invaluable. They cost only a little. prevent trouble, save time, money. Keep them handy . . . they can be used with any type of refrigerant.



the simple, fast, safe way to pinpoint refrigerant leaks . . . a special formulation harmless to refrigerating systems. Detects minute, intermittent leaks, even through

coatings of ice or frost, and provides a positive leak tag.



#### Leak Lock

The joint sealer engineered for refrigeration use . . . seals out moisture. prevents leaks, stops corrosion ... withstands rapid temperature changes and solvent action of re-

frigerants. Stays tacky, flexible and doesn't freeze the joint.

Ask your refrigeration wholesaler for Trace and Leak Lock, or write on your letterhead for free samples to:

#### HIGHSIDE CHEMICALS INC. 4 COLFAX AVENUE . CLIFTON, N. J.

Circle No. 69 on Reader Service Card



#### CARRIER DIV. BUILDS NEW HOUSTON OFFICE

District office for Machinery and Systems Div. of Carrier Corp. is being moved into a newly built conditioned office building at 2727 Weslayan at West Alabama, approximately four miles from downtown Houston, Tex.

The Houston office specializes in year-round air conditioning systems for multi-story office buildings, department stores, hotels, hospitals, apartments and industrial plants. Other important products include refrigeration machines for process cooling and centrifugal and axial equipment for industrial air and gas compression.

#### LATENT HEAT STORAGE FOR AIR CONDITIONING



- · CHURCHES
- . THEATRES
- . CAFETERIAS
- . MORTUARIES
  - . OFFICES
- . LODGE HALLS



Ice-Cel

DOLE REFRIGERATING COMPANY

5942 NORTH PULASKI ROAD, CHICAGO 30, ILLINOIS
103 PARK AVENUE, NEW YORK 17, N. Y.
In Canada: Dole Refrigerating Products Limited, 44 Elgin St., Brantford, Ont.

Write for Engineering Catalog BAE

DEPENDABLE AIR CONDITIONING



## FLUX RIGHT THRU RUST!

Here at last is a soldering flux that dissolves oxides of metal instantly. No cleaning or wirebrushing is necessary, except for heavy scale. Fluxes right through oily, dirty, rusty surfaces — achieves a perfect union of solder and metal. It's non-acid... won't pit or corrode metal or harm galvanizing... safe for oxy-



gen, food and dairy work. Flows into hidden cracks and corners, even uphill, by capillary action.



**PROVE IT YOURSELF** — Your supplier has LA-CO FLUX in paste, liquid or handy stick form. Or write us for a free sample.

FREE engineering counsel on all flux problems.



LAKE CHEMICAL CO.

3082 W. Carrell Ave., Chicago 12, III.

Circle No. 113 on Reader Service Card & AIR CONDITIONING • MARCH, 1958



#### Yessir, I'm a nudist myself, but I'm sure YOU will enjoy wearing my merchandise.

## AMERICAN-Standard BRINGS YOU AN UNPRECEDENTED

#### **USE-IT-YOURSELF**

#### AIR CONDITIONING OFFER

It's hard to sell a product you don't use yourself—especially when the customer knows that you don't. Yet some air conditioning dealers are still living in non-air-conditioned homes... and conduct business from non-air-conditioned shops and showrooms.

To eliminate this sales handicap, American-Standard Air Conditioning Division presents a new and unique Use-It-Yourself Air Conditioning Offer. This offer enables you to install full-scale air conditioning in your home or place of business at a low cost you would hardly have believed possible. We've gone all out to make the deal irresistible because we know that when your friends, neighbors or customers actually see and feel the benefits your system produces, they too will want air conditioning. As the Du Pont Survey pointed out, neighbors of central air conditioning users are the best source of additional sales by a ratio of more than 3 to 1!

Nothing sells air conditioning like air conditioning itself. So *Use-It-Yourself* and watch your sales grow. Your local distributor for American-Standard Air Conditioning Division products is the man to see.

\*American-Standard and Standard® are trademarks of American Radiator & Standard Sanitary Corporation.



Circle No. 70 on Reader Service Card



For further information on any of these products, simply circle on the postcard provided in this issue the key numbers of the items in which you are interested. Your request will be forwarded directly to the companies concerned.

(For News of Useful Literature turn to page 126)

Air-Cooled Conditioner

Product: Model RES-1AR ("Capitolaire") air-cooled residential air conditioner with remote condensing unit and evaporator coil.

Manufacturer: National-U.S. Radiator Corp., Johnstown, Pa.



Features: Condensing unit can be located with its centrifugal blower anywhere outside home where there is unobstructed fresh air supply. Finish blends into landscaping. Evaporator available either as coil only, or as coil-blower combination. complete with cabinet. Motor is protected by built-in thermal overload and system is protected by high-low pressure switch, Coils and tubing are fully charged and sealed.

Circle No. 239 on Reader Service Card

**Industrial Heater** 

**Product:** Line of industrial heaters with four-pass counterflow heat transfer.

Manufacturer: Lennox Indus-

tries, Inc., Des Moines, Iowa.

Features: Transfer doesn't require internal baffles. Primary heat transfer surface is made of heatresistant stainless steel. This eliminates refractory lining and its periodic replacement and permits floor mounting or suspended from ceiling. High velocity jet air stream cools heat transfer surfaces. Actual operating temperature of steel does not exceed 70% of scaling temperature, manufacturer says. Giant blowers operate at low shaft rpm's, delivering high cfm capacities with

nominal horsepower requirements. Induced draft fans operate independently of main blowers. Available in eight sizes from 400,000 to 2,000,000 Btuh output. Suitable for use with oil, gas, or combination fuels.

Circle No. 240 on Reader Service Card

Electronic Air Cleaner

Product: Line of electronic air cleaners (AC/ME) featuring a 1/3 decrease in size of units.

Manufacturer: Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.



Features: Reduced plate spacing. For example 10,000 cfm electronic air cleaner requires only 20 sq.ft. of space, compared with 30 sq.ft, previously. Cell unit said to handle 60% more air at increased maximum efficiency of 97%. Fit into system without special metal work being needed. Consists of 2 x 2' filter that contains 45 lbs. of granulated activated coconut-sheel charcoal. Material is placed between perforated sheets of steel, and pleated to provide large filter area in small

Circle No. 241 on Reader Service Card

Door Thermoswitch

Product: Thermoswitch which provides adjustable temperature control for effective protection against icing of low temperature and freezer doors

Manufacturer: Jamison Cold Storage Door Co., Hagerstown, Md.

Features: Thermoswitch used with manufacturer's "Frostop" which provides temperature above dew point at point of gasket contact. Said



to operate along with maximum protection as it maintains temperatures between 60 and 120 F.

Circle No. 242 on Reader Service Card

Automatic Valve

Product: Series (Type E-93) of water-pressure, automatic reducing valves

Manufacturer: A. W. Cash Valve Mfg. Corp., Decatur, Ill.

Features: Suitable for service

on either cold or hot (to 200 F) wa-



ter. Available in 1/2 to 2" pipe sizes. All bronze. Special heat-resistant seat disc and diaphragm. Rust-proof steel bolting. Large area monel strainer screen protects working parts. Separate clean-out plug for convenient flushing.

Circle No. 243 on Reader Service Card

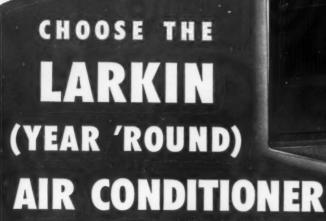
Reminder-Type Calendar

Product: King-size, 25-year, reminder-type, wall calendar ("Sked-U-Cal") with changeable monthly cards having big date space for eraseable notes

Manufacturer: L. D. Blehart Co., Mount Vernon, N. Y.

Features: About 2 sq.ft. Per-

Low Installation Cost! Low Price! Long Life!



5 MODELS - 2 TO 10 TONS

#### Cools or heats • De-humidifies Filters • Circulates Air

Here is Larkin's answer to the ever-increasing demand for year-round comfort conditioners. When you see it . . . when you compare it . . . when you price it . . . then you will understand why we say it is another triumph for Larkin—manufacturer of air-conditioning equipment for nearly 25 years.

See your wholesaler today for complete information about the all-new Larkin Comfort Conditioner. Write us for the name of the one nearest you—or for descriptive literature.



"Originators of the Cross Fin Coil"

LATIKIN EULE

Ideal for:

STORES BARS
SHOPS GRILL

OFFICES RESTAURANTS

BAKERIES FLORISTS

CHIMICS

#### FEATURES THAT SELL AND SATISFY

- Larkin air-conditioning coil—eight fins per inch, continuous fin, staggered tubes, for highest efficiency and lowest operating cost
- Compact cabinet, all-steel, rust-resistant, beautifully finished with baked-on enamel
- Fiber-glass insulation
- Pressure-type, centrifugal, dynamically balanced, forward curved fan wheels
- Frictionless, self-aligning bearings completely encased in Neoprene
- Resilient base motors on adjustable mounts
- Two-direction, adjustable discharge grille
- · Easily removed, throw-away filters
- Heating coils for use with steam or hot water
- Slotted hanger bars
- · Easily installed, easy to service
- Backed by the engineering skill and manufacturing reputation of Larkin Coils one of America's leading makers of commercial and industrial refrigeration and air-conditioning equipment

Circle No. 73 on Reader Service Card

manent working tool. Rigidly constructed. Colorfully lacquered back-



board of processed wood. Cards slide to left or right. Cards can be inserted

or removed from front as well as from sides. Recess in center of top panel holds monthly name cards. Space on both sides makes convenient pencil holder. Cards are heavy cardboard with surface laminated with plastic film. Includes one black and one red

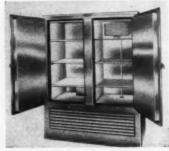
Circle No. 244 on Reader Service Card

Freezers and Refrigerators

Product: Line of freezers and dual-temperature reach-in refrigera-

Manufacturer: McCall Refrigerator Corp., Hudson, N. Y. Features: Plate-type freezers in

sizes from 19 to 65 cu.ft. Reach-ins have direct-expansion-type, full-flooded freezer plates. Plates are mounted in cabinet as shelves. Temperature control switch. Pan-type doors. Reach-ins in sizes from combined 23 to combine 47 cu.ft. Plate

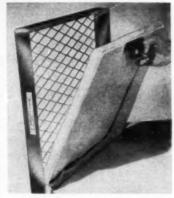


surfaces can be used for direct contact freezing. Normal temperature compartment has adjustable, heavyduty, tinned shelves. Cabinet refrigerated with mullion or ceiling-type blower. Heavy-duty coils balanced to provide automatic defrost during

Circle No. 245 on Reader Service Card

#### Air Filter

Product: Air filter designated "Pure-Air" filter.



Manufacturer: Arco Mfg. Corp., New York, N. Y

Features: Disposable filter pad made of synthetic fibers. Pads are free of oil or adhesive. Pads weigh about 1 oz. Retainer ring removed for changing of pads.

Circle No. 246 on Reader Service Card

#### Dehumidifier

Product: Dehumidifier with "furniture" styling.

Manufacturer: Gibson Refrigerator Co., Div. of Hupp Corp., Greenville, Mich.

Features: Overflow cut-off device automatically turns off unit and flashes red light when water container is full. Approximate for any location where appearance is important. Water container has hose



#### Now check superheat ...EASIER...FASTER...BETTER

Now comes a revolutionary development in superheat testing. The kit illustrated here gives you the easier, faster, and above all the more accurate superheat readings you need for that all-important adjusting and setting of the expansion valve.

All the difficulties of testing with glass tube thermometers—positioning, reading, costly breakage— are wiped out. The small bulbs of these distant reading dial thermometers are easily attached exactly where they should be. The distant reading feature permits placing the dials where they can be readily seen and compared. The widely spaced one-degree markings in the testing zone assure far more accurate reading than is possible with the closely-spaced markings of glass tube thermometers.

Note the many features described opposite-particularly the method of insulating against ambient temperature . . . which assures more accurate readings better results.

At their moderate price you can own these longlived "Super-heat" Thermometers at a fraction of the cost of using the breakable, short-lived kind!

Write for facts or See Your Wholesaler

MARSH INSTRUMENT CO. Sales Affiliate of Jas. P. Morsh Corporation Dept. P Skokle, III.

& Valve Co.(Canada) Ltd., 8407 103rd Street, Edmonton

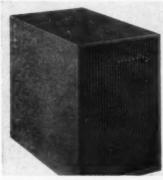


Circle No. 74 on Reader Service Card



Thermometers and "wrappers" are neady held in durable, transparent plastic box with conve-nient hinged cover, meas-ures only 3" x 8" x 114".

connection for direct drainage. Said to remove three to four gal. of water in 24 hours and take care of 12,000



to 14,000 cu.ft. 18-3/16" high, 121/2" wide, and 20" deep. Weighs only 67 lbs. Mounted on nylon gliders. Water container holds about nine quarts.

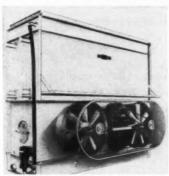
Circle No. 247 on Reader Service Card

#### Water Cooler

**Product:** Line of industrial water coolers for closed system applications where process water temperatures are critical.

Manufacturer: Baltimore Aircoil Co., Baltimore, Md.

Features: A savings of up to 95% of the water normally used



for industrial cooling is possible, manufacturer says. Three styles are available: centrifugal fan drawthrough, for indoor installations where floor space is factor; centrifugal fan blow-through; and propeller fan blow-through, for use where minimum horsepower is desired.

Circle No. 248 on Reader Service Card

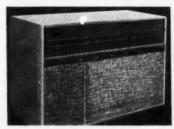
#### **Air Conditioner**

**Product:** Four lines of air conditioners.

Manufacturer: Amana Refrigeration, Inc., Amana, Iowa.

Features: Year-round line: themostatically controlled reverse cycle; available in 1, 1½, and 2 hp, 230-volt, and 1½ hp, 115-volt. "Air Command": rotating air discharge

grilles permit 360° directional air control for draft-free cooling; dimensions are 15" high, 25" wide,



and 28" deep. "Decorator": panel designed so that owner can change

panel to any color or fabric to match any decor; fingertouch glider control hidden behind decorator panel offers choice of seven cooling settings. "Slim-Lo" (model shown): may be mounted flush with window, all the way inside, or all the way outside, or mounted through wall; height 18", and width 27".

Circle No. 249 on Reader Service Card

#### Remote Dehumidifier

**Product:** Line of sprayed coil dehumidifiers.

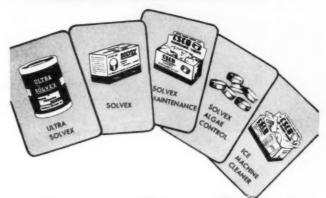
Manufacturer: Trane Co., La Crosse, Wis.

Features: Especially adaptable

## Work Safe in '58

DON'T GAMBLE WITH HARSH CHEMICALS – USE

SOLVEX



Your Best Deal!

#### For Water-Cooled Equipment

Regular Solvex Ultra Solvex Solvex Maintenance Solvex Algae Control

CSCO Ice Machine Cleaner

See your Wholesaler or write:

CHEMICAL SOLVENT CO.

P. O. Box 487

Birmingham, Ala.

Circle No. 75 on Reader Service Card

## THE MOTOR PUMP IS ALWAYS A GOOD Sales point

Customers buying air conditioning systems are vitally interested in the various components that make up the system. They want brand names they know and recognize . . .

When you offer Ingersoll-Rand Motorpumps as an integral part of the systems you sell, your customers are getting dependable, trouble-free service from compact pumps designed specifically for air conditioning service. You get easy installation, fewer service calls . . . and more satisfied customers.



Motorpumps are available from 1/4 to 75 horsepower. Write for our latest literature on Motorpumps for air conditioning service.



Ingersoll-Rand
11 Broadway, New York 4, N.Y

Circle No. 76 on Reader Service Card

for applications requiring precision humidity control. Also used in induced air systems for dehumidification of primary air supply. Basic



components are coils, spray nozzle assembly, heavy gauge eliminators and corrosion-resistant vertical casing. Capacities from 2500 to 41,000 cfm.

Circle No. 250 on Reader Service Card

Heavy-Duty Pump

Product: Portable, heavy-duty, hydraulic motor pumps.

Manufacturer: Tal Bending Equipme...t, Inc., Milwaukee, Wis.



Features: Develops up to 10,000 psi. Weighs only 65 lbs. Adaptable for wherever hydraulic power is used or can be used to replace mechanical power. Said to deliver 80 cu.in. of oil per minute. Driven by 1/2-hp, singlephase, 60-cycle, 1750 rpm, 110-220volt motor.

Circle No. 251 on Reader Service Card

**Cabinet Heater** 

Product: Redesigned line of cabinet heaters that permits selection of a broad range of hot water and steam ratings.

Manufacturer: American Blower Div. of American-Standard, Detroit, Mich.

Features: Choice of seven colors. One-row and two-row heating elements and three-row hot water element are available for each size. This

flexibility permits selection of 21 hot water ratings and 14 steam ratings. In two types: direct-connected, blowthrough-type; and draw-throughtype. Both available for floor, ceiling,



wall, or inverted mounting; non-recessed, semirecessed, fully recessed, or concealed installation. 43 different mounting arrangements possible.

Circle No. 252 on Reader Service Card

Condensate Removal Pump

Product: Model C-21-F sumptype condensate removal pump for air conditioning and refrigeration equipment.

Manufacturer: March Mfg.

Co., Inc., Skokie, Ill.
Features: Mounts inside a.c.

case and off the unit floor. Can mount outside of case but off room

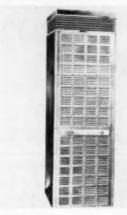


floor. Also can mount on wall closely adjoining a.c. or refrigeration unit. High vertical lift. By pumping down lower in sump and by using mercury switch and float mechanism, unit empties more of its 1 or 2-gal, sumps for more reservoir space for coil deluges when fan goes off or for units with inadequate drip pan space or for multiple coil setups. Dimensions are 7" round x 11" high with removable dove-tail bracket to simplify mounting.

Circle No. 253 on Reader Service Card

Flexible Conditioning System Product: "Landmark" system of year-round air conditioning with heating, cooling coil, and blowerfilter elements in separate cabinets

for flexibility in installation. Manufacturer: Lennox Industries, Inc., Marshalltown, Iowa. Features: Dozens of arrangements possible from one series of components. Line includes forced warm air furnaces for gas or oil fuel or electric resistance heating,



air conditioners, and combination heating and cooling units. Heating capacities range from 40,956 to 378. 000 Btuh. Cooling capacities from two through 10 tons. Both up-flow and down-flow packages are offered. Separate cabinets are aligned by centering pins to give the appearance of single cabinet assembly in completed installation. Cabinet doors are removed easily for serv-

Circle No. 254 on Reader Service Card

**Central Plant Conditioner** 

Product: 2-fan model central plant air conditioner of 75 to 100ton capacity.



Manufacturer: Thermal En-

gineering Corp., Houston, Tex. Features: Sectional construction. Slide rails for easy removal of coils for cleaning. Designed to meet trend for higher capacities in factory-made units.

Circle No. 255 on Reader Service Card

Smoke Test Gun

Product: Smoke test gun for use in checking air movement in heating or cooling installations, or for demonstrating performance of

such systems to customers.

Manufacturer: Air Control Products, Inc., Coopersville, Mich. Features: Requires only cigarette to produce dense, directed



smoke stream for visual check. Loaded by unscrewing holder from pump, inserting lighted cigarette, and screwing holder back into end of pump. Few strokes of plunger handle will force smoke through jet in just the right volume. Can be used without danger of damage to home furnishings, manufacturer

Circle No. 256 on Reader Service Card

#### Year-Round Units

Product: Packaged air conditioners and heat pumps.

Manufacturer: Gibson Refrigerator Co., Greenville, Mich.

Features: Packaged cooling units designed for simple installa-tion and operation without water. Can be suspended from ceilings, straddle or flush mounted; installed in basement, attic, crawl space, dormer, outside flat roof or attached to forced air system. Available in 2 and 3½ hp with capacity range from 21,000 to 34,000 Btuh. Twin compressors on 3½ hp unit. In-clined evaporator coil increases dehumidification at all temperature levels. Both models have two-stage heating-cooling thermostats. Weatherproof for outside installation. Heat pumps provide heating capacities of 21,600 Btuh at 35 F outside temperature.

Circle No. 257 on Reader Service Card

RUST, SCALE

and

CORROSION

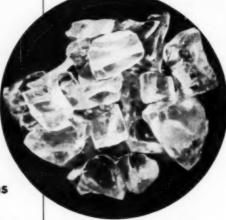
**In Cooling Systems** 

#### **FORMET®** CRYSTALS

the most effective method ever used



The PEROLIN COMPANY, Inc. Now York 1 . Chi.



#### Simple, Safe, Economical

PEROLIN® Water Treatments are effective and easily applied. No proportioning devices needed. Simply add FORMET Crystals once a month to prevent scale formation and corrosion, and to remove existing deposits.

#### Other PEROLIN Products for Cooling Systems

PEROLIN® Algae Preventives for complete control of organic growths.

PERO-KLEAN® Dry Acid Cleaners #808 or #809 for rapid and safest cleaning of hadly scaled equipment

	COUPON USE THIS	
THE PEROLIN COMPAN	Y, INC. York 1, N. Y. or 1112 West 37th Str	set. Chicago 9. Illinois
Gentlemen: Please s Conditioning and K	end full information on Perolin'. Refrigeration systems. No obligati	s chemicals for Air
I have a	system, with	ton capacity
Name	Title	
Company		
Address		
City	Zone St	

Circle No. 77 on Reader Service Card

Portable Crane

Product: Portable, lightweight crane designated "Mr. Hercules".

Manufacturer: Mechanical

Refrigeration Enterprises, North Hollywood, Calif.

Features: Weighs less than 20



lbs. Can be assembled and disassembled quickly. Occupies only small part of car trunk. Lifts over 125 lbs. to height of over 7'. Boom adjustable vertically to permit pinpoint loading and easy entrance between shelving aisles. Rubber wheels. One-man operation.

Circle No. 258 on Reader Service Card

Automatic Defrost System

Product: "Frostomatic", automatic defrost system for truck refrigeration.

Manufacturer: American Mfg. Co., Div. of Standard Forge & Axle

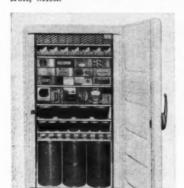
Co., Corona, L.I., N. Y.

Features: Thermostatic control starts defrost cycle only when predetermined temperature difference between evaporator coil and air is exceeded. Two independent bellows systems oppose each other to give compensation through entire refrigerator temperature range at which frosting of coil may occur. As frost forms on coil, heat exchange between coil and refrigerator air is reduced. Refrigerant temperature in coil thus is reduced. Defrost cycle then starts. Control ends cycle when evaporator coil temperature is raised to point where all frost is melted. Use of heat pump cycle provides adequate heat for fast defrost, even in outside ambients of -20 F. Circle No. 259 on Reader Service Card

**Upright Storage Cabinet** 

**Product:** Commercial low-temperature, upright, storage cabinet (SC-21) for storing ice cream and frozen foods.

Manufacturer: Kelvinator Div., American Motors Corp., Detroit, Mich.

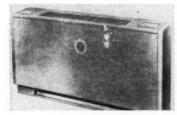


Features: 21 cu.ft. of storage capacity. Only 36" wide. Four shelves are adjustable within inches of one another, or may be removed completely. Thermostat easy to reach at top of cabinet interior. Vertical door handle has built-in lock. Radiant, shell-type condenser never needs cleaning, manufacturer says. Fanless, ½ hp compressor. Cabinet 28-13/16" deep and 69%" high. Circle No. 260 on Reader Service Card

Remote Conditioner

**Product:** Remote heating and cooling unit ("Nelsonaire") for school offices and other nonclassroom use.

Manufacturer: American Air Filter Co., Inc., Louisville, Ky.



Features: For heating, hot water piped from boiler room is circulated through coil. For air conditioning, chilled water is circulated through same piping and coil. Air conditioning optional, but can be added later

by installing chiller in boiler room. All models are only 9" deep and 25" high. Basic decorator colors.

Circle No. 261 on Reader Service Card

**Time Control** 

Product: 8100 Series "D-Frost-O-Matic" time controls.

Manufacturer: Paragon Electric Co., Two Rivers, Wis.

Features: Completely adjustable automatic defrost period time control. Especially designed for electric heating and reverse cycle or hot gas methods of defrosting commercial frozen food cabinets, dairy, del-





## ... and now Re-writing the Specifications of the Refrigeration and Air-Conditioning Industry . . .

AND HERE'S WHY...One after another, men who design, manufacture, install and service refrigeration and air-conditioning are adopting TMC Filter-Driers.

Superior to all other driers in Filtration, Moisture Removal, Acid Removal, and Pressure Drop. Proved by leading laboratories and used by foremost manufacturers as original equipment.

Only 4 sizes handle up to 15 ton systems...inventory space and investment is reduced for manufacturers, wholesalers, installation, and service men.

Write for Questions and Answers Bulletin 1157 right now.

# TUBE MANIFOLD

445 BRYANT STREET

N. TONAWANDA, N. Y.

Another Product of America's Largest Manufacturer of Liquid Receivers

# PEOPLE MAKETHE MAKETHE BEFFERENCE BETWEEN PRODUCTS

That's especially true of refrigerants. "Freon" has achieved its enviable position through dependability. Ansul is ready to bring you this best of refrigerants, but equally important, Ansul people are ready to bring you the best in service, the most in satisfaction. Write for helpful information about "Freon" and about the exciting chemical and mechanical products Ansul has developed for the refrigeration industry.



FIRE EXTINGUISHING EQUIPMENT / INDUSTRIAL CHEMICALS / REFRIGERATION PRODUCTS / NATIONAL DISTRIBUTORS OF "FREON" REFRIGERANTS

Circle No. 79 on Reader Service Card

icatessen, and vegetable display cases, ice cream cases, and walk-in coolers. Control makes any low temperature or normal refrigeration sys tem perform better and automatically reduces compressor down time, manufacturer says.

Circle No. 262 on Reader Service Card

Nozzle for Roof Cooling Product: Nozzle (RC-1) made

especially for roof cooling.

Manufacturer: Bete Fog Nozzle, Inc., Greenfield, Mass.



Features: Manufacturer claims coverage of 16' diameter or about 300 sq.ft. per gpm at operating pressure of 10 psi. Less apt to clog due to absence of internal parts and small orifices. Made from single piece of brass material.

Circle No. 263 on Reader Service Card

Fish Refrigerator Product: Refrigerator (FS 8 UT) designed for storage of fish. Manufacturer: Traulsen & Co., Flushing, L.I., N. Y.

Features: Eight drawers permit



quick and easy selection of different types of fish and seafood. Intermingling of odors is reduced to point where meats and dairy products can be stored in drawers (self-closing)

not needed for fish. Less ice neededboth in initial volume and wastage through melting. Drawers also use less ice and maintained temperature prevents constant melting. Inside drawer area 18 x 14 x 7".

Circle No. 264 on Reader Service Card

Gas Boiler

Product: Line of gas boiler (16C series) to meet residential, commercial and industrial heating and hot water supply requirements.

Manufacturer: Heating and Air Conditioning Div., National-U.S. Radiator Corp., Johnstown, Pa. Features: Designed for use with

steam, vapor, gravity hot water or forced hot water heating systems. A.G.A. approved for natural, manufactured, mixed, liquid petroleum, and LP gas-air mixtures.

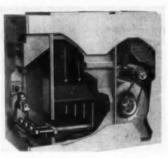
Circle No. 265 on Reader Service Card

**Gas-Fired Furnace** 

Product: "Low-Boy" line of three gas-fired furnaces Manufacturer: Coleman Co.,

Inc., Wichita, Kans,

Features: Input ratings of 105,-000, 135,000, and 165,000 Btuh.



Overall height excluding plenum is 421/2". Belt-driven blowers permit wide range of air adjustment. Can be used with all types of duct systems. Blower capacities are ample for summer air conditioning when coils are installed in furnace plenum. Quiet operation assured by sectionalized design of heat exchanger, manufacturer says.

Circle No. 266 on Reader Service Card

Room Air Conditioner

Product: Line of room air conditioners.

Manufacturer: Remington

Corp., Auburn, N. Y.
Features: 8 new series range from 3/4 to 2 hp. 230v models may be equipped with conversion package to maintain overload capacity on 208v circuits. Most models available for 50 or 60-cycle operation. Ultra-thin and in-wall models are offered, along with both water cooled and air cooled consoles.

Circle No. 267 on Reader Service Card

**Manual Starter** 

Product: Line of Class 2510 integral horsepower manual starters.

Manufacturer: Square D Co., Milwaukee, Wis.

Features: In NEMA size 0 and for control of motors up to 71/2 hp. Heavy-duty, toggle-action operating



mechanism gives positive snap-action opening and closing of contacts, with no dead center position. Self-centering pushbuttons give visual indication of overload condition. Available in compact 2, 3, or 4-pole construc-tion. Packaged parts kits are available for routine maintenance and modification needs.

Circle No. 268 on Reader Service Card

Return Air Grille

Product: Return air grilles and registers for heating and air-conditioning.

Manufacturer: Waterloo Register Co., Inc., Waterloo, Iowa.

Features: Fixed blades with curved hemmed edge results in nearly sight proof grilles without decreasing area for free air passage. Hemmed edge strengthens blade and eliminates sharpedge of previous designs. Circle No. 269 on Reader Service Card

Air Handling Unit

Product: Air handling units for use in high velocity systems. Manufacturer: Recold Corp., Los Angeles, Calif.



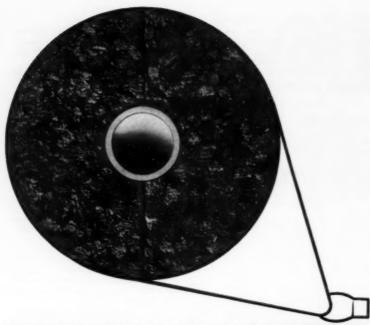
Features: Vertical, horizontal, and multi-zone units. Special wheels added, with slight unit modification, make possible a unit for every type of system. Range of sizes from 2350 to 29,000 cfm. Angle iron frame.

Circle No. 270 on Reader Service Card

Hermetic Condensing Unit Product: Line of "Flex-O-Matic" hermetic condensing units,

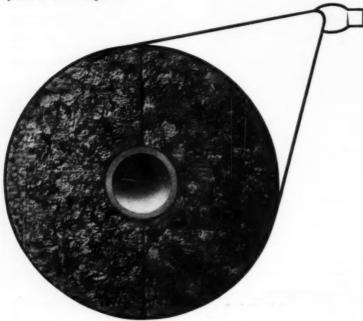
Manufacturer: York Corp., subsidiary of Borg-Warner, York, Pa.

Features: Interchangeable compressor and condenser sections. Condenser section also can be installed



#### UNITED'S MOLDED CORK PIPE COVERIN

Made from pure, clean, granulated cork compressed and molded to exact size. Extremely stable K factor over wide, low temperature range. Will not rot or support combustion. Clean, sanitary and odor free. Fits tighter . . . goes on faster . . . provides maximum protection. Available in a wide variety of sizes from local stock, coast to coast. Try it - it's unsurpassed . . . and least expensive in the long run!





#### UNITED CORK COMPANIES

Since 1907

7 Central Avenue, Kearny, New Jersey

Engineering offices or approved distributors in key cities - coast to coast.

Circle No. 80 on Reader Service Card

remotely from compressor section. Compressor section is wired completely for use on racks. Condensing units separate quickly and easily by



removing four bolts in base and disconnecting single flared tube which connects compressor and condenser sections. Available in nine models from 1/3 to 71/2 hp.

Circle No. 271 on Reader Service Card

Portable Drawing Board

Product: Portable plastic drawing board.

Manufacturer: Leslie Creations, Lafayette Hill, Pa.

Features: Molded of polystyrene. Weighs less than 8 oz. Includes



two transparent plastic triangles. Two retractable metal straight edges eliminate need for T-square, Four recessed spring clips hold 8½ x 11" sheet of paper. No thumbtacks or scotch tape needed. Triangles clamp underneath board when not in use. Rubber cushions protect desk top. Measures 10 x 12". Fits into brief-

Circle No. 272 on Reader Service Card

**Elevating Tail Gate** 

**Product:** Elevating tail gate known as "Weight Lifter".

Manufacturer: H. S. Watson Co., Emeryville, Calif.

Features: Mounts underneath pickup to truck frame with four bolts. 12 or six-volt battery-electrichydraulic powered, with reservoir, pump, valve, and control switch all in one unit. Control package mounts in convenient place on side of truck body, with only leads to battery to hook up. 800 lb. lifting capacity.



Safety switch stops load when operator takes his hand off control

Circle No. 273 on Reader Service Card

Electronic Air Cleaner

Product: "Tec Line" of electronic air cleaners for residential



Manufacturer: Electro-Air Cleaner Co., Inc., Pittsburgh, Pa. Features: Includes both vertical and horizontal flow units. Easily

installed in any forced air heating, ventilating, or cooling system. Circle No. 274 on Reader Service Card

**Humidifier Cleaner** 

Product: "Vapco" humidifier

Manufacturer: German Co., Inc., St. Louis, Mo.

Features: Quickly dissolves scale, corresion, rust, and solids from humidifiers and plates, manufacturer says. Dry powder package in 12 oz. cans. One can mixed with about two gallons of hot water is suitable for cleaning all makes and models of humidifiers, according to manufacturer.

Circle No. 275 on Reader Service Card

**Epoxy Resin Cement** 

Product: Aluminum-filled epoxy resin compound ("Metalset A4") in two collapsible tubes.

Manufacturer: Smooth-On Mfg. Co., Jersey City, N. J.

Features: Proper proportions of

# Another First from DOVER

The First Packaged Cooling Tower with

SELF-CLEANSING BASIN and ALL-PURPOSE Right-Angle UTILITY SUMP



Horizontal Induced Draft 2 to 200 tons capacity

Dover adds another first to an already impressive list of achievements in the cooling tower industry.

The Dover self-cleansing basin and all-purpose right angle utility sump bring you such advan-

SLOPING BASIN . . . basin collects all mud and debris in one section for easy removal through sump flush-out opening.

MUD RISER PROTECTS PUMPING SYSTEM . . . suction line and pump are protected against air intake and harmful foreign matter.

DRAIN DRY FEATURE . . . right angle sump can be adjusted so that basin drains dry each time system shuts off . . . simplifies servicing and winter shut-down.

EASY FIELD HOOK-UP . . . right angle sump provides bottom suction with side pipe-up . . . eliminates need of costly grillage to elevate tower. Tower rests on its own skids.

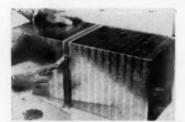
MANUFACTURING COMPANY Dept. 101, 3117 Weatherford Avenue

Independence, Missouri

FULL DETAILS . . . are yours for the asking. Just a note will do. We'll send you all the information you want and need on the all new Dover Series CF towers. Write today!

Circle No. 81 on Reader Service Card

resin and low-toxicity catalyst are measured accurately and automatically. Identical lengths of each are squeezed out from respective tubes. Two different colored components



then are mixed to uniform color. Said to resist acids and alkalis and is Nonflammable. Illustration shows compound being used to caulk joint between two sections of galvanized sheet metal ducting. Masking tape is removed before material has cured. Circle No. 276 on Reader Service Card

Modular Silencer

Product: Addition of modular silencer to line of "Quiet-Duct" silencers for air conditioning and ventilating systems.

Manufacturer: Industrial Acoustics Co., Inc., New York, N. Y.

Features: Available in full sizes, 24 x 24 x 30"; half sizes, 24 x 12 x 30"; quarter sizes, 12 x 12 x 30". Can be installed in parallel to handle



large volumes. Can be placed in series for additional noise control, Available with slip joint connections. Circle No. 277 on Reader Service Card

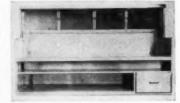
Counter Stand

Product: Under-counter equip-

ment stand with downdraft.

Manufacturer: S & R Soda Fountain Mfg. Co., Inc., New York,

Features: 31" front to back. In lengths from 4 to 61/2'. All ex-



posed surfaces are stainless steel. Drawer on ball bearing tracks. Easily removable. Adjustable legs. Sliding doors are mounted on roller bearing sheaves. Grease trough and cup catch all excess grease from filters.

Circle No. 278 on Reader Service Card

Control and Valve

Product: Line of bronze dual controls and reducing valves with built-in check valves.



Manufacturer: Taco Heaters, Inc., Cranston, R. I.

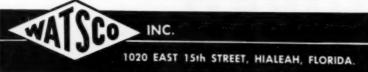
Features: Dual unit in 1/2" size only. Reducing valves in 1/2 and 3/4" sizes. Large strainer areas. Stainless steel compensating springs. Nonsticking, high-temperature seat discs. Reinforced diaphragms.

Circle No. 279 on Reader Service Card



A complete-all in one-strainer capillary tube combination featuring three stage straining action; the Strain-O-Kap is a scientifically designed precision metering device that will operate efficiently regardless of the make or model or refrigerant used. Install Strain-O-Kap on any equipment and get 100% results.\*

\*For complete information, send for 1958 catalog.



Circle No. 82 on Reader Service Card

"In my book, no other control

can begin to compare with

WHITE-RODGERS..

"My book, as a matter of fact, proves it!
I keep a record of every job—and my service reports show in black and white... White-Rodgers controls give longer, better service!"

Wherever control trouble means loss,

smart servicemen and application engineers use White-Rodgers for commercial and industrial refrigeration installations. Accurate, quick-acting Hydraulic-Action and rugged switch with oversize silver contacts, in dirt and vermin proof case, stop service troubles before they start.

Type 1609-12. The pinch-hitting king of the refrigeration control world. With a range of -20 to  $+50^{\circ}$  F., Adj. Diff. 3 to  $25^{\circ}$ , 5 ft. capillary with  $5\% \times \%$  inch bulb it can handle almost any control replacement. Can be used in zoning systems. Make it a habit to keep several on hand.



Type 1629-11. Selective Range Temperature Control. Ideal for use on water, beer and beverage coolers, vegetable and meat display cases, etc. Cover dial graduated 1 to 5 with knob-pointer for easy adjustment of any point in selected portion of total 20 to 75° range. Capillary, 5 ft.



Type 1639-6. Manual Pre-Start Temperature Control for use on milk coolers where it's necessary to have compressor running when warm milk is added. Pre-start button for manual starting of compresor. Range 33 to 55° F. Capillary, 5 ft. The 33° F. minimum range prevents dial from accidentally being set to a milk-freezing temperature.



Type 1609-13, knob type, for control of a wide variety of refrigeration applications where frequent changes in temperature are necessary. Can be used in zoning systems where all thermostats control a common compressor, but operate separate solenoid refrigerant valve in each zone. Range: -20 to +50° F. Capillary, 5 ft.



Type 1609-31 has special 15½ inch air-sensitive bulb to give quick and accurate response to slightest temperature changes. For use on ice cream, quick freeze, deep freeze and frozen cabinets. Range: -20 to +50° F. Also available for 33 to 55° F. Capillary, 5 ft.

Where there's a control problem,
THERE'S A NEED FOR WHITE-RODGERS CONTROLS



AUTOMATIC CONTROLS for heating, air conditioning and refrigeration

WHITE-RODGERS

ST. LOUIS 6, MISSOURI

TORONTO 8, CANADA

Circle No. 83 on Reader Service Card



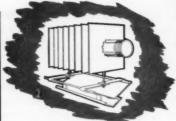
# THE LEADER IN REFRIGERATION SINCE 1882



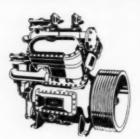
ICE MAKERS



VALVES & FITTINGS



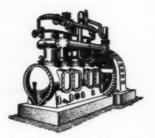
PRESTFIN PIPE COILS



**ECLIPSE COMPRESSORS** 



AIR CONDITIONING



HEAVY-DUTY COMPRESSORS

Frick Company designs and manufactures equipment engineered to the individual requirements of your plant.

If you need any type of cooling or temperature control...call your nearest Frick Branch Office or Distributor for recommendations and estimates.

á

Offices in principal cities throughout the world.

"ECLIPSE" COMPRESSORS 2 to 9 cylinders

HEAVY-DUTY COMPRESSORS 3 by 3 to 173/4 by 12

AIR HANDLING UNITS
QUICK FREEZING SYSTEMS

BLOCK & SHELL-ICE MAKERS

CONDENSERS Evaporative & Shell-&-Tube

AIR CONDITIONING

LOW-PRESSURE REFRIGERATION UNITS

1/4 to 20 H.P.

CONTROLS, VALVES & FITTINGS SHELL-TUBE & COIL COOLERS



Circle No. 115 on Reader Service Card

MARCH, 1958 . COMMERCIAL REFRIGERATION

#### LETTERS ...

Continued from page 10

in the editorial copy in your magazine within the last six months and can truthfully say we feel that the type of material you are printing today is far superior to other trade publications.

Since your magazine is read by the type of dealers that we encourage, good down to earth facts are of more value to the trade than editorials on glory type jobs.

We must, as an industry, collectively group together and train our dealers to be better salesmen and better businessmen.

Keep up the good work!

H. B. SHAFFER S. S. Fretz, Jr., Inc. Philadelphia, Pa.

#### Seeks Source for "Phoenix" Soda Fountain Parts

EDITOR:

As a subscriber and ardent reader of your magazine, Commercial Re-FRIGERATION & AIR CONDITIONING, I am writing you requesting a little information that I hope you can supply.

I need some repair parts for a "Phoenix" soda fountain, but have been unable to determine just who manufactures this line of equipment and where they are located.

ARTHUR FINCH Arthur Finch Refrigeration Maysville, Ky.

Phoenix soda fountains are manufactured by Phoenix Soda Fountain Co., Inc., 307 Bruckner Blvd., New York 54, N. Y. Information concerning repair parts should be available from this source.

#### Supports Black's Conclusions

EDITOR:

I read with great interest Mr. Vincent P. Black's article entitled "7 Industry Problems" in the December issue.

It is my humble opinion that the air conditioning and heating industry's manufacturers, distributors, dealers, and allied suppliers should collectively and individually take note on the seven points made in Mr. Black's article as the best summary made to date of our industry's most serious problems and possible solutions to these problems.

A. J. L. Moritz, Jr.
Trane Co.
Miami, Fla.

## MADDEN BRASS NAMED WIMCO DISTRIBUTORS

Wilson Mfg. Co. has named Madden Brass Products Co. as national distributors for its Wimco line of tube working tools.

#### WORTHINGTON UNITES HOME SALES OUTLETS

All Worthington Corp.'s home air conditioning and heating equipment sales now will be handled by the corporation's Mueller Climatrol Div. under a new policy announced by Walther H. Feldmann, president of Worthington.

Sales to the commercial and industrial markets will continue to be handled by Worthington's Air Conditioning and Refrigeration Div.

Previously the two divisions operated separate distribution systems in the residential market.

Elston J. Tribble, group vice president of Worthington, will administer the overall operations of both divisions.

# NEW KITTE KAP-KIT

...the Complete Capillary Replacement Assembly

STRAINER-CAPILLARY
FAMOUS KENMORE
MOISTURE MAGNET® DRIER
... ALL IN ONE UNIT

- NO GUESSWORK...NO CUTTING
- PROPER CAPILLARY FOR UNIT SPECIFIED
- AMPLE CAPACITY MESH STRAINER AT INLET
- PLUS KMP MOISTURE MAGNET

MOW KMP KAP-KIT gives servicemen a complete, tailored assembly for replacement in the field... the proper size drier for the capillary. KMP KAP-KIT provides precision metering control for all refrigerants and has the drier in the proper location used by all leading manufacturers—The LOW SIDE. When drier is placed in refrigerated position at the end of the capillary, desiccant adsorbs more moisture and, more important, retains the moisture.

Insist on Exclusive KMP KAP-KIT...a strainer assembly, Moisture Magnet of spun copper (in all popular sizes), plus flare nuts and bonnets... uniformly produced at lowest cost.

This assembly can be used with either Freon 12 or Freon 22.

Write today for information and prices.



KENMORE MACHINE PRODUCTS, INC.

U.S. Patents RE. 22,465 and 2,430,692

Circle No. 84 on Reader Service Card

#### TRANE DEALER NAMED

Raymond Diehl Co., Tallahassee, Fla., has been appointed an authorized source of Trane package air conditioning equipment.

#### CORRIDORS PRE-COOLED IN NEW "CARILLON"

In designing the 890-ton air conditioning system for Miami Beach's new 620-room Carillon Hotel, Hill-York Sales Corp., the installing contractor, replaced cooling towers with a York marine system, which uses salt water from deep wells.

The Carillon is one of the few hotels on Miami Beach which does not have cooling towers. The hotel uses a chilled water air conditioning-heating plant, designed by Hill-York.

Each of the hotel's 620 guest rooms and all public areas will have its own thermostat. All 22 stores in the building will have a central thermostat which will maintain a constant temperature in all the stores. Corridors will be pre-cooled with 100% fresh, dehumidified air through a duct sys-

Each room, which will be air conditioned by individual units mounted horizontally close to the door, will receive its fresh air supply from the pre-cooled corridors.

#### **BOOK REVIEW**

Title: Refrigeration, Air Conditioning and Cold Storage, 1232 pages.

Author: Raymond C. Gunther Publisher: Chilton Co., Philadelphia, Pa.

Price: \$17.50

Covers the development, production and application of refrigeration and air conditioning. The material starts with required physics, mechanical refrigeration cycles and types of equipment and controls. Basic refrigeration calculations include standard measurements, use of specific heat factors, heat load calculations, work done by compressor, pressure drops.

Description of the application, operation and maintenance of refrigeration and air conditioning systems includes drawings. Also calculations for determining loads, equipment sizes, insulation, power,

Discusses steam jet refrigeration, absorption systems, heat pumps, electric motors, fans, and pumps.

#### JOINS D-H SALES GROUP

Expansion of Drayer-Hanson sales representation in Minnesota was announced recently. Appointed to handle D-H air conditioning products is the Geo. R. Mellema Co., Minneapolis. Continuing as sales agent for the manufacturer's refrigeration equipment is Associated Refrigeration Products, Minneapolis.

#### CINCINNATI SUB-ZERO APPOINTS ONTARIO FIRM

Ed O'Sullivan and Gregg Kirby, owners of General Refrigeration, Kitchener, Ontario, have been appointed sales representatives for Cincinnati Sub-Zero Products, Cincinnati, Ohio, manufacturers of low-temperature chilling machines.

The territory is south and west of a line through Midland, Orilla, Lindsay, Peterborough and Port

# WHO'S IT FOR?

It's a Remco Super-Flo filter-drier and it's tagged for:

FORD MOTOR CO CHRYSLER

JANITROL RHEEM

EATON NOVI

GIRTON

GILSON AMANA

BRYANT PRIMOR

UNIFLO PFAUDLER

LINTERN

TRANSICOLD

PARKOMAY FRIGIKAR

LONERGAN

O. A. SUTTON CLIMATIC AIR

JOHN E. MITCHELL

PERFECTION INDUSTRIES PAUL MUELLER CO.

KYSOR HEATER

ARMSTRONG-FURNACE

McCORD CORP. A.R.A. MANUFACYURING

IDEAL COOLER

FEDERAL REFRIGERATOR SIMPLEX MFG.

D. W. ONAN & SONS

NATIONAL-U.S. RADIATOR AND MANY OTHERS

These manufacturers use Remco because the price is competitive and the product dependable. Add it up: thorough removal of moisture; efficient filtering; negligible pressuredrop. Who's it for?

## IF IT'S REMCO-IT'S FOR YOU! REMCO INC. write for Bulletin R-11

ZELIENOPLE. PA. CARRIED IN STOCK BY LEADING WHOLESALERS EVERYWHERE

Circle No. 85 on Reader Service Card



# ONLY SQUARE D GIVES YOU ALL 5

#### 1 QUICK INSTALLATION!

No groping or fumbling. Square D gives you lots of wiring space, plenty of knockouts, handy and clearly marked pressure wire connectors.

#### 2 TOP PERFORMANCE!

No needless downtime from coil burnout, mechanical binding, contact freezing. Square D gives you an extra-capacity magnet with a tough and cooloperating encapsulated coil to handle additional poles and interlocks—a guided single moving part—big silver cadmium-oxide contacts with strong finger springs—arcing yokes on larger sizes.

#### 3 REAL OVERLOAD PROTECTION!

No change in trip characteristics because of mismatched parts supplied separately for field assembly, no distortion of heater in installation. Square D gives you melting alloy unit construction—factory-assembled and individually tested for bull's-eye accuracy. Also bi-metal and magnetic designs for automatic reset or adjustable trip applications.

# 4 EASY INSPECTION and MAINTENANCE!

No starter is "maintenance-free." But Square D makes the job easy. Inspection is a breeze. You don't have to remove wiring for contact replacement or take the starter out of the enclosure to change coils.

#### 5 WIDE-RANGE ADAPTABILITY!

No need for excessive inventories to avoid costly waiting for non-standard arrangements. Square D provides "off-the-shelf" kits for changing contacts and coils, adding pushbuttons, selector switches, and up to 4 double-throw auxiliary circuits.

#### Send for the COMPLETE Story!

Square D Company, Dept. 24,

4041 North Richards Street, Milwaukee 12, Wisconsin

Please send me your new bulletin with detailed proof that Square D offers me my best starter investment.

Name\_\_\_\_\_

Company

City Zone State

SQUARE TI COMPANY



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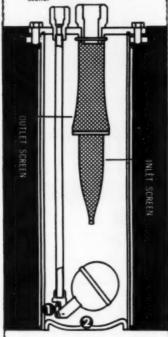
get peak refrigerating **EFFICIENCY** 

with a

#### TEMPRITE OIL SEPARATOR

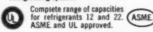
Oil is separated from the gas before it can get into the evaporator and is returned to the compressor automatically . . .

- . Full capacity of expansion valve assured
- · Evaporator heat transfer increased.
- · Constant clean oil lengthens compressor life.
- · TEMPRITE oil separator muffles sound.



1 OIL RETURN VALVE: Located ABOVE the sludge reservoir.

2 SLUDGE RESERVOIR: Traps sludge, oil carbon, and foreign substances, preventing their continued flow through the refrigerating system.



PAGE BOOKLET ON REQUEST Describes many advantages of Temprite Oil Separators.



**Temprite Products Corporation** P. O. Box 728 . E. Maple Rd. Birmingham, Mich. Send me Oil Separator Booklet No. T-397.

Address. City Zone State

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#### WORTHINGTON FINISHES COOLING SHIP AT SEA

Final installation of an air conditioning system was completed recently on the high seas aboard the Italian luxury liner S. S. Castel Felice during her recent maiden voyage from Cuxhaven, Germany to Montreal, Canada. The 12,149ton ship, property of Societa Italiana Trasporti Marittimi (SIT-MAR) was completely modernized and outfitted for Worthington Corp. air conditioning.

At Hamburg, Germany, heavy steel deck plates on the forward portion of the 470' vessel were removed and a 340-ton centrifugal refrigeration unit, including a compressor, condenser and chiller, were lowered into a below-deck compartment. Worthington engineers then rearranged equipment and made modifications to make room for the unit in the limited space of the ship's hold.

Ductwork, assembled from a polyvinyl material that resists salt water corrosion, was installed throughout the passenger quarters, luxury lounges, crew quarters, and work space. The refrigeration unit chills a calcium chloride brine that is circulated to air handling units installed throughout the ship. The sea water pump for the condenser and the brine pump for circulation through the evaporator were manufactured by Worthington's associated company in Milan, Italy.

Bert Thur, the company's service engineer, completed final work on the cooling system while the ship was underway on the Atlantic Ocean, Somewhere off the Canadian coast, the ship's air conditioning system was turned on for the first time to cool her 1,127 passengers and 125 crew members for the remainder of the trip.



"Yeah, now the freezer'll preserve your pies all right-but it won't improve their taste!"

Carson's, Inc. of Denver, distributors of Bastian-Blessing Company's line of soda fountains and

fast food service equipment, has appointed Noble H. Koontz for the

past two years was area manager of its recently organized Special

Products Div. Koontz for the past

two years was area manager of the Rocky Mountain division of Swed-

JOINS DENVER FIRM

# TEMPERATURE and HUMIDITY



HYGROTHERMOGRAPH CAT. NO. 5-594

#### RECORDING AT ITS BEST

Daily or weekly recording periods choice of temperature ranges . . . Bourdon or Bimetal element . . . Radiation shield

THE

## INSTRUMENTS CORPORATION

CENTRAL AVE. AT BALTIMORE ST. BALTIMORE 2, MARYLAND

#### UTILITY FAN OPENS MID-WESTERN OFFICE

en Freezer Co.

Expansion of Utility Fan Corp.'s sales and service operations to the mid-west and eastern market has been announced.

Marcus McGuire, factory-trained engineer formerly with U.S. Motors, will head the new operation with headquarters in Chicago.

Circle No. 89 on Reader Service Card

# THE RIGHT MOVE IS TO .. A IRSERCO COST SAVERS



PORTABLE MEASURING TUBE



Where performance makes the difference, AIRSERCO excels. And top performance in refrigerant handling and precision measuring equipment cuts costs









KC-2 PORTABLE HIGH PUMP VACUUM



TEST CORD

A TANK HOLDER





LECTRIC ANALYZER



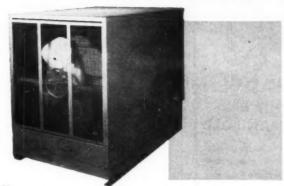
#1 MIDGET PANEL

Send now for our 1958 Retrigerant Handling & Measuring Equip-ment Catalog No. R 8

AIRSERCO MANUFACTURING CO., INC. PITTSBURGH 13, PENNSYLVANIA, U.S.A.

Airserco has built more refrigeration testing equipment than any other company in the world.

# **RUGGED CONSTRUCTION - QUIET OPERATION** LOW SILHOUETTE - CORROSION RESISTANCE



Now — Master-Bilt gives you the durability of galvanized steel at black iron prices in this comprehensive line of cooling towers. Towers are delivered completely assembled, ready for piping and wiring. 15 through 50 ton models are bolted for

easy disassembly, if necessary, and 3 to 10 ton models are all welded. For complete information, send coupon today.



REFRIGERATION MFG. CO.

4209 FOLSOM AVE. . ST. LOUIS 10, MO.

at sensational low cost with

## MASTER-BILT COOLING TOWERS

The Economical Line with a Wealth of Outstanding Features:

- Galvanized steel construction
- 10 models, 3 through 50 tons
- 25% more evaporative surface with removable heart of redwood decking
- Indoor-outdoor installation
- Inlet and outlet screens (as illustrated) and distribution pan cover.
- Quiet motor, mastic coated interior
- Completely assembled easy to install

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	Ple	ase		nd i	me i		ple	te i	info	rm	atio	n o	n A	Aast	er-l	Bilt	gal	van	izec	d

NAME COMPANY

**ADDRESS** 

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#### TEMPERATURE RECORDERS AND INDICATORS



#### DEFROSTS AUTOMATICALLY

FOR FRESH MEAT ROOMS BELOW 34°F, FOOD STORAGE, FOOD FREEZING, ICE CREAM STORAGE. NDUSTRIAL LOW TEMPERATURE APPLICATIONS.

Defrectair's patented heat trap system takes adstage of the fact that warm air rises and can trapped under a head. For example, move your nd a few inches above a lighted candle and only a small amount of heat is felt. Now place a metal container over the candle. In a matter of minutes it is extremely hat because the heat is confined under the canopy or head.

Witt Defrostair patented heat trap ceil requires only a law cost single pole, double throw time clock for complete automatic defresting. Easy low east installation, requires no re-evaporation or special plumbing. Available in 14 models ranging in BTU capacities of from 3800 to 38,000 at

Write for data sheet

A. H. WITT COMPANY WIT S ANGELES 38; CALIF.

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#### NEW MADDEN CHARGING AND TESTING MANIFOLD

For testing and purging both high and low sides. Helps servicemen find trouble quickly. Features Teflon seat, and requires only light hand pressure for positive shut-off.

Plus our complete line of Wimco Tools: flere tools, tube benders, tube cutters, bending springs, etc.

SEE YOUR MADDEN WHOLESALER



MADDEN BRASS " AURORA 2, ILLINOIS, U.S.A. ET: Ad Aurisma SS Sweed St., New York, H. V.

Circle No. 93 on Reader Service Card

HERE'S HOW . . .

Continued from page 71

tion to pass through and link with the roof insulation. A non-setting mastic was used to seal the joints at the juncture of roof and wall insulation. This allows for expansion and contraction.

Libby's Ocala plant processes around 24,000 boxes of oranges per day at full capacity. The plant is closed during the three summer months, but the cold storage rooms are in year-round service. The plant addition described here



"We figure you're bound to take a crack at it sometime, so you might as well have the proper tools.'

added 20,000 sq.ft. of floor space, and 500,000 cu.ft. of volume.

The finished product, 6-Oz. cans of concentrated orange and lemon juice, is conveyed from the processing line by large lift trucks and stacked approximately 20' high in the cold storage room until shipped. Constant temperature of -10F is maintained in this room.

The 40-ton ammonia refrigeration system consists of a rotary booster compressor and a reciprocating high stage compressor connected with three Niagara blowers. These are interlocked with a Niagara "No-Frost" concentrator which provides continuous defrosting for the cold storage room.

BUY FROM YOUR REFRIGERATION WHOLESALER

## What's New in Refrigerants?

# **ISOTRON**\*

PACKAGE ...

# GREAT NAMES

Pennsalt Chemicals

"ISOTRON" is Pennsult's registered trademark for its fluorinated hydrocarbons.

†Trademark AP&CC



Effective immediately two leading factors in the chemical world join forces to serve the refrigerant industry. American Potash & Chemical Corporation, a leading national refrigerant distributor for 20 years, and Pennsalt Chemicals Corporation unite to bring you ISOTRON refrigerants, newest of the fluorinated hydrocarbons in CHARG-A-CAN† disposable containers and bulk cylinders. First with the full line, first in constructive service for wholesalers, contractors and service men, TRONA continues its refrigerant marketing leadership.



FIRST with the FULL LINE in disposable CHARG-A-CAN containers and bulk cylinders . . . ISOTRON-11, ISOTRON-12, ISOTRON-22, ISOTRON-113, ISOTRON-114, METHYL CHLORIDE and SULFUR DIOXIDE.

For further information write

American Potash & Chemical Corporation

3030 West Sixth Street, Los Angeles 54, Calif. 99 Park Avenue, New York 16, New York

Export Office: 99 Park Avenue, New York 16, New York

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- Costs less
- Full open height only 2<sup>1</sup>/<sub>4</sub>"
- Seal cap with chain attached
- 2½" diameter handwheel, colored for easy identification

Designed for ease of operation, this new valve features a compact packless diaphragm of beryllium copper and stainless steel, for maximum resistance to wear. Rugged forged brass body has integral mounting flange. Maximum operating pressure, 500 p.s.i. Maximum temperature, 200° F. Connection size inlet 3%" male flare. See your Kerotest wholesaler today.

Ask for No. R224X1



KEROTEST MANUPACTURING CO. 2504 Liberty Avenue Pittsburgh 22, Pa. Circle No. 97 on Reader Service Card



March 31 - April 2, 1958

Gas Appliance Manufacturers Association (Annual Meeting) The Greenbriar White Sulphur Springs, W. Va.

May 4-7, 1958

Air-Conditioning and Refrigeration Institute (Board Meeting and Annual Meeting) The Homestead Hot Springs, Va.

May 5-9, 1958

National Restaurant Association (Convention and Exposition) Navy Pier Chicago, Ill.

May 7-11, 1958

Western Air Conditioning Industries Association Shrine Exposition Hall Los Angeles, Calif.

June 9-13, 1958

Oil-Heat Institute of America (Convention and Exposition) New York, N. Y.

June 23-25, 1958

American Society of Heating and Air-Conditioning Engineers American Society of Refrigerating Engineers (Joint Meeting) Leamington Hotcl Minneapolis, Minn.

October 12-17, 1958

American Gas Association (Annual Convention) Atlantic City, N. J.

October 22-24, 1958

Air-Conditioning and Refrigeration Wholesalers (Annual Meeting) Sheraton-Palace Hotel San Francisco, Calif.

December 1-3, 1958

Am rican Society of Refrigerating Engineers (Semiannual Meeting) Hotel Roosevelt New Orleans, La.

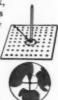
December 1-4, 1958

National Warm Air Heating and Air Concitioning Association (Committee Meetings and Annual Convention) Cleveland, Ohio



#### Spindle Hangers and W-A Self-Locking Washers

Ideal for insulation work, Gemco Spindle Hangers are easily and quickly installed... with positive adhesion to concrete, brick or metal. W-A Self-Locking Washers pressed over spindles with minimum effort and lock insulation securely in place.



#### **GEMCO Pronged Hangers**



Designed especially for supporting various types of block insulation. Easily applied for positive adhesion. Prongs (available in various

lengths from 1% 6" to 6%") bend over to hold insulation firmly in place.

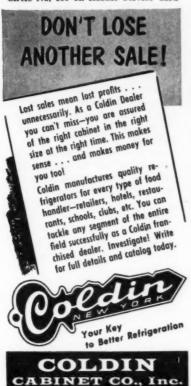
#### **TUFF-WELD Nylon Hangers**

Two-piece hangers... with bases of tough, mold nylon and spindles of metal. Made especially for smooth surfaces. Spindles snapped into bases as needed; reduces inventory, storage space, freight costs. W-A Self-locking washers hold insulation securely in place.

TUFF-BOND Quik-Set Adhesive (for smooth or slightly irregular surfaces) and General Purpose Adhesive (for rougher surfaces) assure permanent adhesion of hangers when used as directed. Write or wire for details and specifications.

GOODLOE E. MOORE
INCORPORATED
DANVILLE 40, ILLINOIS

Circle No. 96 on Reader Service Card
MARCH, 1958 • COMMERCIAL REFRIGERATION



MANUAL . . .

Continued from page 69

open space in the drop ceiling around the area to be conditioned. Supply air is pumped into this plenum and diffused into the space below through conventional damper-equipped ceiling outlets.

You can design an alternate system around an air handling unit suspended above the ceiling and discharging air into the plenum while drawing return air through a sheet metal duct from the space below.

## Suspended Ceiling as a Supply Air Plenum

Where it is not practical to utilize a drop ceiling as a supply air duct, you can generally adapt it to use as a return air plenum. A return air duct tapped into the ceiling plenum will carry the air from the plenum to the air-conditioning unit. You can cut return air grilles through the ceiling at the desired points. These grilles should be equipped with volume dampers to permit balancing the system.

# DISSOLVE SCALE FASTER with CINCO Condenser Cleaner

**ANCO** condenser cleaner

removes scale from condenser tubes and circulating lines quickly and harmlessly. Simply dissolve ANCO Condenser Cleaner in the sump while the system is in operation. Within hours you lower head pressure and restore maximum operating efficiency to the condenser.

#### ANCO WATER TREATMENT

Keeps scale from forming in condenser tubes, circulating lines, and protects metals from rusting.

Anco Algaecide Kills algae and slime in cooling towers and evaporative condensers.





## **Install the Balanced Driers that**



# **FULL-TIME JOBS!**

High-capacity desiccant

2800 Webster Ave., N. Y. 58, N. Y.

Permasorb

WITH MOLECULAR SIEVE

does the Drying

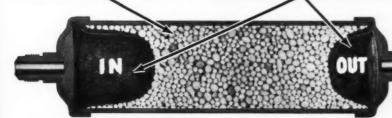
Many times greater drying capacity than other desiccants and protected by an inlet filter against dirt, studge, clagging. It does a full-time drying job! Double FILTERS do the Filtering

Specially-processed, low-micron inter filter traps and holds all foreign matter within filter and away from desiccent. Outlet filter protects expansion valves and other critical parts.



A dirty, sludge-coated desiccant can not dry effectively. That's exactly what happens in driers where the desiccant must also act as a filter. The desiccant becomes contaminated and clogged, quickly loses drying efficiency.

Only DFN Filter-Driers do each job separately—with size of filters and quantity of desiccant perfectly balanced for maximum effectiveness against moisture, foreign matter and acids. Buy them at your Wholesaler.



Accurate Rating and Selection Data available from authorized DFN wholesalers.

The McIntire Company . Livingston, New Jersey

Since 1925—Specialists in Drying and Filtering

Circle No. 98 on Reader Service Card





#### WORTHINGTON COOLS NEW OFFICE BUILDING

The largest office building in Westchester County in New York will be completely air conditioned by a Worthington Corp. chilled water system that will provide 397 tons of cooling.

The new building, in White Plains, is six stories high and contains 140,000 sq.ft. of rentable space.

The Worthington equipment includes a 397-ton hermetic centrifugal refrigeration unit; 220 fan and coil units for cooling perimeter areas; and 24 air handling units for cooling interior zones; as well as three standard fitted centrifugal pumps.

#### CARRIER PUSHBUTTON UNITS COOL COURTHOUSE

A contract for three large-capacity water chilling machines plus cooling and heating coils for air conditioning Sedgwick County Courthouse in Wichita, Kan., has been awarded to Carrier Corp. by Ripstra-Turner Co., contractor.

Operating automatically according to the need for cooling, the 900-ton capacity plant can be started by a single pushbutton.

The hermetic centrifugal units are the first of their type to be installed in Wichita, according to Thomas-Harris-Calvin & Associates, local architect and consulting engineering firm for the 11-story building.

Air from three conditioning stations will be sent at high velocity throughout the structure by spacesaving cylindrical ducts. Double lines, one carrying warm air and the other cool air, will discharge into mixing chambers above hung ceilings. Conditioned air then will be diffused through a ceiling outlet into the rooms.

Baseboard convectors along outside walls will provide auxiliary heating in winter.

Cooling towers will conserve some 95% of the water used to transfer heat removed from the building to the atmosphere. They will be located with central conditioning apparatus in a rooftop penthouse.



730-10 So. Columbus Ave., Mt. Vernon, N. Y.

Circle No. 101 on Reader Service Card



## THATCHER OPENS NEW RESEARCH LABORATORY

A research laboratory devoted to new product development and refinement has been opened in Garwood, N. J. by Thatcher Furnace Co.

The new laboratory contains complete facilities for testing experimental and developmental models of warm air furnaces, gas and oil burners, and boilers.

and Representatives:
Some choice territories open.

#### SYMPOSIUMS HIGHLIGHT WESTERN SHOW MAY 7-11

A conference program has been announced by Western Air Conditioning Industries Association in connection with its exhibit scheduled for May 7-11 at Shrine Exposition Hall in Los Angeles.

The program includes symposiums on: School House Environmental Control, covering steam and hot water systems, radiant heating, ventilation, cooling, heating, central air systems, and unitized room systems; Codes and

#### WINNER HEARS MUSIC



PLEASURE TO WIN! Nip Mohler (left) of R. E. Thompson Co., St. Louis, refrigeration and air conditioning wholesalers, was adjudged the winner of the Mueller Brass Co., "Hi-Fi" contest. The contest was staged during the recent ARI Exposition in Chicago. Entrants, numbering in the thousands, were asked to estimate the total capacity, in drops of water, of all the filter blocks contained in a huge model of the company's "Drymaster" filter-drier. Ed Joern (right), manager of Mueller's St. Louis office, congratulates Mohler. The prize is a console model phonograph. Mohler's estimate was the closest to the exact total

Standards, covering views of the government, engineer, contractor, industry, and owner; Air Cleaning; Air-conditioning Existing Buildings; and general technical sessions including discussion about high temperature hot water, water conservation, air-conditioning existing residences, residential heat pumps, low temperature design techniques, and large absorption systems.

Information on the exhibit and conference program may be obtained from Fred J. Tabery, exhibit manager, at 3443 S. Hill St., Los Angeles 7, Calif.

#### HUPP INT'L NAMES 6 LATIN AM. OUTLETS

Appointment of six new Latin distributors has been announced by Hupp International, division of Hupp Corp. Hupp International markets products of three Hupp divisions: Gibson Refrigerator Co., Typhoon Air Conditioning Co., and Perfection Industries.

The new Gibson distributors are Almacen Americano Sucr. of Wm. H. Phelps Co., Caracas, Venezuela; Manuel Holguin & Cia., La Paz, Bolivia; Electro Radio C. por A., Ciudad Trujillo, Dominican Republic; and Union Nacional Importadora C. A., Guayaquil, Ecuador. The Caracas firm also will handle Typhoon's line and the Guayaquil firm also will handle Perfection's line.

Representaciones Linage S. A., Puebla, Pue., Mexico, will handle the Typhoon line. Atlas Distributing Co., San Juan, Puerto Rico, will handle, the Perfection line.

BUY FROM YOUR REFRIGERATION WHOLESALER

#### Circle No. 104 on Reader Service Card

# Stop noise from vibration



Just cut what you need for the weight of the air conditioner, and install under the unit. One square inch for each fifty pounds of weight does it. ISOMODE PADS absorb vibration, cut down noise on any type of floor. Made of Du-Pont neoprene, they resist oil, last for years. No cementing needed ... units stay put. ISOMODE PADS are most economical when bought in standard packages of ten 18" x 18" sheets. Write for prices and Information Bulletin No. 415.

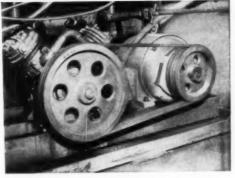
® Trade Mar

#### MB manufacturing company

A DIVISION OF TEXTRON INC. 1065 State Street, New Haven II, Conn.

# TEAMWORK!

BROOK
A. C. MOTORS
AND YOUR
COMPRESSORS



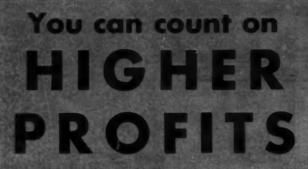
BROOK A. C. MOTORS provide a smooth flow of power to compressors regardless of climatic conditions. Brook Motors, 1 to 600 HP, cost less initially and assure maximum service life and overall economy. There is no finer motor built. They're powering air and gas compressors from Arabia to Wyoming, stacking up splendid performance records. There's a Brook Sales and Service Headquarters near you. Send for literature.

worlds most respected motor

#### BROOK MOTOR CORPORATION

3553 W. PETERSON AVE., CHICAGO 45, ILL.

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Curetis

AIR CONDITIONERS



**Evaporative Condensers** and Cooling Towers up to 100 tons Air handling units to match.



Packaged Liquid Chillers-7½ to 100 tons—F-12 or F-22. With room console units to provide controlled cooling and heating without duct work.

### HERE'S WHY...

#### MAXIMUM DEPENDABILITY

Each CURTIS unit is backed by 104 years of engineering and manufacturing experience . . . one of many reasons why CURTIS air conditioning equipment operates at maximum efficiency with a minimum of maintenance.

#### **CUSTOMER SATISFACTION**

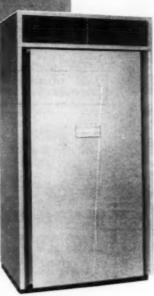
The long operational life and minimum service requirements of CURTIS air conditioning, combined with peak performance, assures satisfied customers.

#### PRE-SOLD PROSPECTS

National advertising beamed at virtually every prospect category helps pre-sell Curtis equipment for you. CURTIS provides sales and promotional aids to make your selling job easier.

#### PRICED FOR PROFITS

All Curtis air conditioning equipment is competitively priced, with a very generous profit margin for you!



Packaged air conditioning mnits-3 through 50 tons.



Packaged Air Cooled Air Conditioning Units-2 through 71/2 tons. Residential and commercial applications.



Condensing units up to 100 tons-F-12 or F-22.

REMEMBER-

you can count on



OUR 104th YEAR

MANUFACTURING COMPANY . REFRIGERATION DIVISION

1918 Kienlen Ave., St. Louis 20, Mo.

C-35

## BENDIX SYSTEM GIVES

WEATHER IN COLOR
A system "Weatherman" that measures and indicates the speed and direction of the wind, temperature, relative humidity, rainfall, and barometric pressure has been announced by Friez Instrument Div. of the Bendix Aviation

Outside weather data is presented indoors on 11" diameter color dials that can be flushmounted in installations in television stations, airports, schools, banks, department stores, office buildings, and similar locations.

The numbered scales of the indicators are covered with a fluorescent yellow paint, which also is used on the inner-scale graduations

HEATING & AIR-CONDITION! AIR CONDITIONER "But wouldn't I save even more If I didn't buy it at all?

on the face of the dial. A fluorescent orange paint highlights the leading edges of the indicator

These colors are designed to lend themselves - when subjected to an ultra-violet light - to dramatic presentations of weather

The basic system, which also features remote operation-except for pressure - electronic amplification for temperature and humidity, and a single transmitter for wind speed and direction, consists of six units. However, indicators and transmitters also can be supplied as individual units.

#### PRODUCT LINE EXPANDED

C. W. Dean and Associates, Memphis, manufacturers representatives, have expanded the line of products represented by the firm to include American Air Filter Co.'s air filter and engine and compressor products.

#### NEW ARI STANDARD ON UNITARY HEAT PUMP

The first standard covering "Unitary Heat Pump Equipment' has been issued by the Air-Conditioning & Refrigeration Institute.

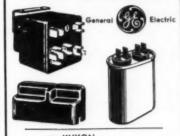
The new standard, numbered 240-57, was issued to "establish minimum industry standards of performance of unitary heat pumps and to provide means for establishing reliable ratings", ARI reports.

#### **NEW DIVISION FORMED** BY PYRAMID INSTRUMENT

Pyramid Instrument Corp. announces the formation of a new division, Sargent Electric Corp.

Sargent manufactures a complete line of standard and special toggle and trigger switches.

#### Refrigeration and Air Conditioning **RELAYS** and OIL CAPACITORS





REQUEST OUR CATALOG SHEETS

698 WASHINGTON AVENUE BROOKLYN 38, NEW YORK Sold Only Thru Jobbers

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## SCALE . . . SLIME . . . SLUDGE . . . ALGAE but SAVE the **EOUIPMENT!!**

#### VAPCO SCALE REMOVER

The safe, inhibited, activated acid cleaner in powder form, which also contains an algaecide for prompt, positive cleaning under the most severe conditions. 10 and 50 lb. containers, with "TEL-ACTION" pH indicator inside.

#### VAPCO-HIB

#### ACID INHIBITOR . . .

A must for those who prefer to "make their own" cleaner with liq-uid acids. VAPCO-HIB added to acid inhibits it without effecting its efficiency and provides outstanding protection to metals including GAL-VANIZE. Ask for VAPCO-HIB by name. 8 and 32 oz. bottles and bulk.

#### **VAPCO-PHOS NUGGETS**

Keep your jobs clean! For complete protection against recurrence of scale, rust, corrosion, algae and Nuggets dissolve uniformly and slowly for long term protection. Safe because NUGGETS are FOOD PURE! 10, 50 and 100 pound fibre drums.

#### VAPCO SLIME-X

Here is the easiest and most economical way to remove and prevent algae and slime formation. Just one ounce to ten gallons of water does it. Cannot harm any part of system. 10 ounce cans and 25 pound drums.

#### Also-

VAPCO ICE MACHINE CLEANER - FOOD GRADE safely and quickly cleans all makes of cube-flake ice machines. 8 ounce bottles and 200 pound drums.

Complete literature on request or see your dealer TODAYI



Circle No. 105 on Reader Service Card





RIGHT IN THE PALM OF YOUR HAND

Metal construction . light weight-2 lbs. . Self powered . . convenient size-6½ x 3% x 1½ . . own lighting system

THE

#### INSTRUMENTS CORPORATION

CENTRAL AVE. AT BALTIMORE ST. BALTIMORE 2, MARYLAND

#### DEAN COLD PLATE NAMES 13 REPRESENTATIVES

Dean Cold Plate Div. of Dean Products, Inc., Brooklyn, N. Y., announces the appointment of:

J. C. Battles, Crystal Lake, Ill., northern Illinois, eastern Iowa, eastern Wisconsin; C. G. "Mutt" Baker, Atlanta. Complete states of Alabama, North and South Carolina, Mississippi, Tennessee and northern Florida; Stephen J. Benn, Orlando, Fla., central Florida, southern Florida; B. L. Burlingame, New Hartford, N. Y. All New York State with exception of Putnam County and south of Orange County;

Filters, Inc., Somerville, Mass. Complete states of Vermont, New Hampshire, Maine, Rhode Island, and Massachusetts with exception of Hampten County; Merle G. Haynes, Berkeley, Calif. Complete states of Arizona, Colorado, New Mexico, Nevada, northern and southern California, and Western Texas; Jack Huff, Narberth, Pa. Complete state of Delaware, Maryland, District of Columbia, and eastern Virginia; Roger P. Kipp Co., St. Louis, Mo. Roy B. McCrady, Prairie Village Kan. Complete states of Iowa, Kansas, Missouri, Nebraska, and southern Illinois.

R. E. LeRiche, Seattle, Wash. Complete states of Idaho, Montana, Oregon, and Washington; Charles Logan, Philadelphia, Pa. Eastern Pennsylvania; George R. Mellema Co., Minneapolis. Complete states of Minnesota, North and South Dakota, and northwestern Michigan;

Bernard M. Packtor Co., New Haven, Conn. Complete state of Connecticut, Rhode Island, and southern Massachusetts; and Ted Stikeleather Sales Co., Cincinnati, Ohio. Complete states of Kentucky, and Ohio, and southern Indiana, and northeastern Michigan.

#### WAGNER ELECTRIC ADDS MANUFACTURING SPACE

Wagner Electric Corp. recently expanded its St. Louis plant by more than 28,000 sq.ft. of floor space with the addition of a new manufacturing building.

The new building utilizes a space 75' wide by 380' long between existing buildings.

A unique feature of the new building is that it was erected by suspending a roof between the outside wall of one building and the outside walls of two facing buildings. Two end walls were erected and a floor laid to enclose the area and complete the new building.

#### 6 AIRTEMP WHOLESALERS WIN '58 CHRYSLER CARS

Six top officials of wholesale air conditioning and heating firms have been awarded new Chrysler Imperials by Airtemp Div., Chrysler Corp., for outstanding sales achievements during 1957.

Those receiving the new cars were: Anthony Cueto, Industrial Sheet Metal, Bakersfield, Calif.; J. D. Donohue, Climate Control Co., Phoenix, Ariz.; E. C. Fox, Hager-Fox Heating & Refrigeration Co., Lansing, Mich.; Ira Mansfield, Mansfield Heating & Plumbing, Centralia, Ill.; W. E. McLeod, Central Air Conditioning & Heating, Inc., Nashville, Tenn.; and Shasta Sheet Metal, Reading, California.

#### LOEWY TO DESIGN 1959 FEDDERS LINE

Raymond Loewy Associates has been signed as consultant designers by Fedders-Ouigan Corp.

The designers will handle the firm's full line of air conditioning and heating equipment. The first project on the schedule is Fedders 1959 room air conditioner models.



#### NOW AVAILABLE FROM FLEXONICS

Flex-O-Tube synthetic Freon-resistant hose for refrigeration and air conditioning service. Write for information. Looking for a way to eliminate the "shakes" from compressor piping? Install Flexon Vibra-Sorbers . . . great for isolating compressor noise and vibration in refrigeration and air conditioning installations.

All-metal Flexon Vibra-Sorbers provide excellent resistance to corrosion and fatigue . . . remain gas-tight under prolonged vibration . . . come to you clean in sealed polyethylene bags. U.L. listed in sizes 3½° through 1½° for both high and low side service. Standard diameters to 8° available. Write for Bulletin 139.

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# Flexonics

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& AIR CONDITIONING 

MARCH, 1958

#### NEW AIR FILTER PLANT DOUBLES OLD CAPACITY

Air Filter Corp. recently doubled its old plant capacity with the building of a new plant and offices at W. Woolworth Ave., Milwaukee, Wis., according to Rodger J. Clark, president.

The new factory includes special truck loading platforms. Murals decorate the air conditioned offices.

Products manufactured by the firm include a complete line of "Airsan", permanent, viscous-type air filters for heating, ventilating, air conditioning, and custom applications.

Other officers of the firm include Ray Breckheimer, vice president; and Emmett Philipp, secretary.

#### TRION ADDS 2 REPS

Trion, Inc., has announced the appointment of two additional representatives for its commercial and industrial units.

They are: H. E. Rieckelman Co., Buffalo, N. Y.; and Robert S. Belcher. Tampa, Fla.

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Pipe or Tubing



• Just a twist of the wrist casures perfect, even bends . . . right-angle, any angle, U and offset—every time. Eliminate need for els. No

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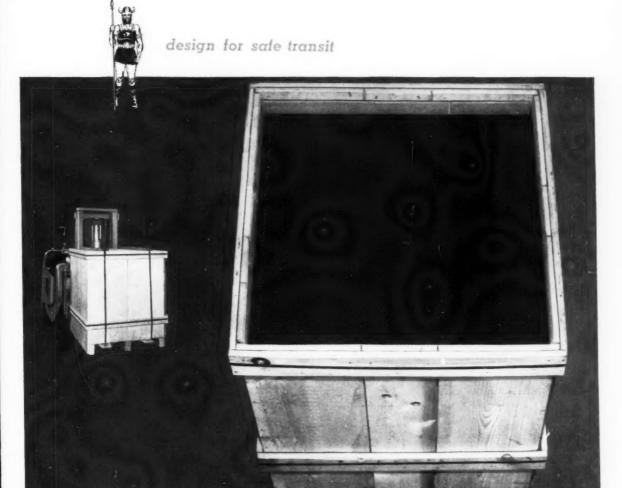
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VIKING painstakingly controls every aspect of the production of its tube, and as perfectionists, takes pride in delivering every foot of VIKING Thin Wall Copper Tube uniform and perfect.

It is because of VIKING'S pioneering in quality, uniformity and dependability that VIKING Copper Tube is today the first choice of the nation's leading manufacturers of air conditioning and refrigeration units and coils.



VIKING

COPPER TUBE CO.

CLEVELAND 10, OHIO

PRECISION DRAWN SEAMLESS COPPER TURE

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